

## Mouse SIGLEC-5/SIGLEC-14 Monoclonal Antibody | anti-SIGLEC-5/SIGLEC-14 antibody

MOUSE ANTI HUMAN SIGLEC-5/SIGLEC-14

| CATALOG # | HOST  | APPLICATIONS                                                                     |
|-----------|-------|----------------------------------------------------------------------------------|
| AAA50231  | Mouse | Immunoprecipitation, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

SIGLEC-5/SIGLEC-14; Monoclonal Antibody; MOUSE ANTI HUMAN SIGLEC-5/SIGLEC-14; anti-SIGLEC-5/SIGLEC-14 antibody

### PRODUCT SPECIFICATIONS

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                         | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                                    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                                      | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Clone Number                                                 | 1A5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                                  | This item recognises human Siglec-5 (Sialic acid-binding Ig-like lectin 5), otherwise known as CD170, a novel sialic-acid-binding Ig-like lectin, and member of the Ig superfamily, expressed by dendritic cells (DCs), activated macrophages, neutrophils, and cells of the monocyte/myeloid lineage. Clone 1A5, is one of several Siglec-5 antibodies which also recognises human Siglec-14 (Sialic acid-binding Ig-like lectin 14), see Angata, T. et al. for details. Siglec-14 shares an almost identical sequence with Siglec-5 within the first two Ig-like domains, indicating partial gene conversion between these two Siglecs, also evident in other primate species. Siglec-5 is highly related to the myelomonocytic-derived adhesion molecule CD33 (Siglec-3), and mediates sialic-acid dependent binding to cells, as well as acting as an inhibitory receptor in the down-regulation of cell activation. Structurally, Siglec-5 contains an immunoreceptor tyrosine-based inhibitor motif (ITIM), which plays a part in the modulation of cellular responses, and when phosphorylated, can bind to the SH2 domain of several SH2-containing phosphatases. Siglec-14 is a putative sialic-acid binding adhesion molecule, and member of the Ig superfamily, predominantly expressed in hematopoietic tissues, which has been shown to associate with the activating adapter protein DAP12. Clone 1A5 has been show to cross react with Chimpanzee, see Jaroenpool, J. et al. for details. |
| Form/Format                                                  | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Concentration                                                | IgG concentration 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence Length                                              | 551                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-SIGLEC-5/SIGLEC-14 antibody | IP (Immunoprecipitation), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Perservative Stabilisers                                     | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>Preparation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Immunogen                                                    | Siglec-5-Fc protein, consisting of the full-length extracellular region of human Siglec-5, fused with the Fc region of human IgG1.<br>Buffer Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Target Species                                               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage                                      | Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

IMAGES



Application Data

Human peripheral blood monocytes stained with Mouse anti Human Siglec-5/Siglec-14:RPE



Application Data

Human peripheral blood monocytes stained with Mouse anti Human Siglec-5/Siglec-14:FITC



Application Data

Human peripheral blood monocytes stained with Mouse anti Human Siglec-5/Siglec-14 (AAA50231) followed by rabbit F(ab')<sub>2</sub> anti mouse IgG:FITC

ADDITIONAL INFORMATION

Related Product Information for anti-SIGLEC-5/SIGLEC-14 antibody

MBS224725 recognises human Siglec-5 (Sialic acid-binding Ig-like lectin 5), otherwise known as CD170, a novel sialic-acid-binding Ig-like lectin, and member of the Ig superfamily, expressed by dendritic cells (DCs), activated macrophages, neutrophils, and cells of the monocyte/myeloid lineage. Clone 1A5, is one of several Siglec-5 antibodies which also recognises human Siglec-14 (Sialic acid-binding Ig-like lectin 14), see Angata, T. et al. for details. Siglec-14 shares an almost identical sequence with Siglec-5 within the first two Ig-like domains, indicating partial gene conversion between these two Siglecs, also evident in other primate species. Siglec-5 is highly related to the myelomonocytic-derived adhesion molecule CD33 (Siglec-3), and mediates sialic-acid dependent binding to cells, as well as acting as an inhibitory receptor in the down-regulation of cell activation. Structurally, Siglec-5 contains an immunoreceptor tyrosine-based inhibitor motif (ITIM), which plays a part in the modulation of cellular responses, and when phosphorylated, can bind to the SH2 domain of several SH2-containing phosphatases. Siglec-14 is a putative sialic-acid binding adhesion molecule, and member of the Ig superfamily, predominantly expressed in hematopoietic tissues, which has been shown to associate with the activating adapter protein DAP12. Clone 1A5 has been show to cross react with Chimpanzee, see Jaroenpool, J. et al. for details.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4502659                                                                                                                                                      |
| NCBI GeneID                      | 8778                                                                                                                                                         |
| NCBI Accession #                 | NP_003821.1                                                                                                                                                  |
| NCBI GenBank Nucleotide #        | NM_003830.3                                                                                                                                                  |
| Molecular Weight                 | 60,715 Da                                                                                                                                                    |
| NCBI Official Full Name          | sialic acid-binding Ig-like lectin 5                                                                                                                         |
| NCBI Official Synonym Full Names | sialic acid binding Ig-like lectin 5                                                                                                                         |
| NCBI Official Symbol             | SIGLEC5                                                                                                                                                      |
| NCBI Official Synonym Symbols    | CD170; OBBP2; CD33L2; OB-BP2; SIGLEC-5                                                                                                                       |
| NCBI Protein Information         | sialic acid-binding Ig-like lectin 5; CD33 antigen-like 2; OB-binding protein 2; obesity-binding protein 2; sialic acid-binding immunoglobulin-like lectin 5 |
| UniProt Protein Name             | Sialic acid-binding Ig-like lectin 5                                                                                                                         |
| UniProt Gene Name                | SIGLEC5                                                                                                                                                      |
| UniProt Synonym Gene Names       | CD33L2; OBBP2; Siglec-5; OB-BP2; OB-binding protein 2                                                                                                        |
| UniProt Entry Name               | SIGL5_HUMAN                                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/monoclonal/siglec-5-siglec-14-antibody-clone-1a5-immunoprecipitation-immunofluorescence-flow-cytometry-elisa/50231>