

## Mouse CD42a Monoclonal Antibody | anti-CD42a antibody

MOUSE ANTI HUMAN CD42a

|                              |                      |                                                                               |
|------------------------------|----------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA50121</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay, Immunohistochemistry</b> |
|------------------------------|----------------------|-------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

CD42a; Monoclonal Antibody; MOUSE ANTI HUMAN CD42a; anti-CD42a antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                  |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                             |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                   |
| Clone Number                                    | FMC-25                                                                                                                                                                                                                                                                 |
| Form/Format                                     | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                      |
| Concentration                                   | IgG concentration 1.0mg/ml (varies by lot)                                                                                                                                                                                                                             |
| Sequence Length                                 | 177                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-CD42a antibody | FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)                                                                                                                                                                                                                  |
| Perservative Stabilisers                        | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                                                                                                                                                                                 |
| Preparation                                     | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                                                                          |
| Buffer Solution                                 | Phosphate buffered saline.                                                                                                                                                                                                                                             |
| Target Species                                  | Human                                                                                                                                                                                                                                                                  |
| Immunogen                                       | Peripheral blood mononuclear cells.                                                                                                                                                                                                                                    |
| Preparation and Storage                         | Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody.<br>Shelf Life: 12 months from date of receipt. |

### IMAGES



#### Application Data

Human peripheral blood platelets stained with Mouse anti Human CD42a:FITC

ADDITIONAL INFORMATION

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| Related Product Information for anti-CD42a antibody | Mouse anti Human CD42a antibody, clone FMC-25 recognizes human CD42a, also known as Platelet glycoprotein IX, Glycoprotein 9 or GP-IX. CD42a is a 177 amino acid, ~20kDa type I single pass transmembrane glycoprotein containing a single leucine-rich repeat containing N-terminal domain and a single leucine-rich repeat containing C-terminal domain. CD42a is expressed by platelets and megakaryocytes and forms a covalent complex with CD42c (GP-1b-beta), CD42b (GP-1b-alpha) and CD42d (platelet glycoprotein V) to create the platelet surface receptor for von Willebrand factor. Incubation of the intact von Willebrand receptor complex with clone FMC-25 does not appear to inhibit binding of von Willebrand factor to the receptor (Yan et al. 2011). Defects in the GP1BB gene encoding human CD42a can lead to the inherited bleeding disorder Bernard-Soulier syndrome (Diz-Küçükkaya 2013), characterized by prolonged bleeding times, thrombocytopenia and the appearance of giant platelets in the circulation (Johns et al. 2014). Mouse anti human CD42a antibody, clone FMC-25 has been successfully used as a capture reagent for platelet-autoantibody complexes in the sera of patients presenting thrombocytopenia associated with anti-phospholipid syndrome (Godeau et al. 1997). |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|------------------------------------------|
| NCBI GI #                        | 4504077                                  |
| NCBI GeneID                      | 2815                                     |
| NCBI Accession #                 | NP_000165.1                              |
| NCBI GenBank Nucleotide #        | NM_000174.4                              |
| UniProt Accession #              | P14770; Q14445; Q8N1D1; Q92525           |
| NCBI Official Full Name          | platelet glycoprotein IX                 |
| NCBI Official Synonym Full Names | glycoprotein IX (platelet)               |
| NCBI Official Symbol             | GP9                                      |
| NCBI Official Synonym Symbols    | GPIX; CD42a                              |
| NCBI Protein Information         | platelet glycoprotein IX; glycoprotein 9 |
| UniProt Protein Name             | Platelet glycoprotein IX                 |
| UniProt Gene Name                | GP9                                      |
| UniProt Synonym Gene Names       | GP-IX; GPIX                              |
| UniProt Entry Name               | GPIX_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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd42a-antibody-clone-fmc-25-flow-cytometry-immunohistochemistry-elisa/50121>