

## Rat TIM-1 Monoclonal Antibody | anti-TIM-1 antibody

RAT ANTI MOUSE TIM-1:FITC

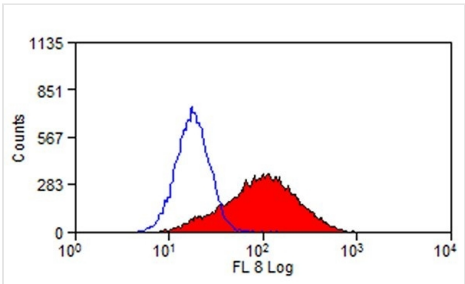
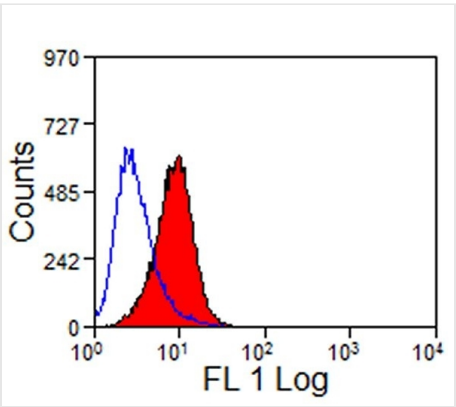
|                              |                    |                                                         |
|------------------------------|--------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA50150</b> | HOST<br><b>Rat</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|--------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

TIM-1; Monoclonal Antibody; RAT ANTI MOUSE TIM-1:FITC; anti-TIM-1 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rat                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype                                         | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone Number                                    | RMT1-10                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format                                     | FITC<br>Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                                                                                                                                                                                                                                                                                                                                            |
| Concentration                                   | IgG concentration 0.1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                 | 282                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for anti-TIM-1 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Perservative Stabilisers                        | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin<br>Preparation                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                       | Full-length mouse Tim-1-Ig, containing both the IgV and mucin domains of Tim-1.<br>Fusion Partners                                                                                                                                                                                                                                                                                                                                |
| Target Species                                  | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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. This product is photosensitive and should be protected from light. 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. |



Application Data  
TIM-1 transfected NRK cells stained with Rat anti Mouse TIM-1

Application Data  
TIM-1 transfected NRK cells stained with Rat anti Mouse TIM-1:FITC (AAA50150)

ADDITIONAL INFORMATION

Related Product Information for anti-TIM-1 antibody

Rat anti Mouse TIM-1 antibody, clone MBS239187-10 recognizes mouse Tim-1 (T-cell immunoglobulin mucin 1), a cell surface glycoprotein and member of the immunoglobulin superfamily, which was first identified as the hepatitis A virus cellular receptor (HAVCR), and is highly expressed in the liver (isoform Tim-1a) and the kidneys (isoform Tim-1b). Tim-1 is highly expressed by activated CD4+ T cells, and acts as a positive/negative co-stimulatory molecule of T cell proliferation, cytokine production and tolerance abrogation, and is the receptor for Tim-4, expressed on APCs. Tim-1 expression is greater on Th2 than Th1 cells, and studies have shown that interaction between Tim-1 on Th2 cells and Tim-4 on dendritic cells (DCs), enhances Th2 cell function, and have implicated Tim-1 as a critical player in the development of atopic disease, and in particular airway hypersensitivity. Polymorphic forms of Tim-1 are associated with increased susceptibility to asthma, eczema and Rheumatoid arthritis. Rat anti Mouse TIM-1 antibody, clone MBS239187-10 has been shown to promote Th2 responses, and inhibit antigen-specific T cell proliferation, in contrast to the agonistic function of many Tim-1 antibodies (Xiao et al. 2007). Rat anti Mouse TIM-1 antibody, clone MBS239187-10 has been shown to reduce the severity of EAE (experimental autoimmune encephalomyelitis) and delay disease onset, in mice studies (Xiao et al. 2007).

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 262231823                                                                                                                                                                                                                                                                     |
| NCBI GeneID                      | 171283                                                                                                                                                                                                                                                                        |
| NCBI Accession #                 | NP_001160103.1                                                                                                                                                                                                                                                                |
| NCBI GenBank Nucleotide #        | NM_001166631.1                                                                                                                                                                                                                                                                |
| UniProt Accession #              | Q5QNS5; Q7TPU2; Q8VIM1; Q8VIM2                                                                                                                                                                                                                                                |
| Molecular Weight                 | 30,925 Da                                                                                                                                                                                                                                                                     |
| NCBI Official Full Name          | hepatitis A virus cellular receptor 1 homolog isoform b                                                                                                                                                                                                                       |
| NCBI Official Synonym Full Names | hepatitis A virus cellular receptor 1                                                                                                                                                                                                                                         |
| NCBI Official Symbol             | Havcr1                                                                                                                                                                                                                                                                        |
| NCBI Official Synonym Symbols    | Tim1; KIM-1; TIM-1; Timd1; AI503787                                                                                                                                                                                                                                           |
| NCBI Protein Information         | hepatitis A virus cellular receptor 1 homolog; HAVcr-1; T-cell immunoglobulin and mucin domain containing 1; T-cell immunoglobulin mucin receptor 1; TIMD-1; kidney injury molecule 1; t cell immunoglobulin and mucin domain-containing protein 1; t cell membrane protein 1 |
| UniProt Protein Name             | Hepatitis A virus cellular receptor 1 homolog                                                                                                                                                                                                                                 |
| UniProt Gene Name                | Havcr1                                                                                                                                                                                                                                                                        |

|                            |                                                  |
|----------------------------|--------------------------------------------------|
| UniProt Synonym Gene Names | Kim1; Tim1; Timd1; HAVcr-1; KIM-1; TIMD-1; TIM-1 |
| UniProt Entry Name         | HAVR1_MOUSE                                      |

**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/tim-1-antibody-clone-rmt1-10-flow-cytometry-elisa/50150>