

## Rat TIM-4 Monoclonal Antibody | anti-TIM-4 antibody

RAT ANTI MOUSE TIM-4

|                              |                    |                                                                                                   |
|------------------------------|--------------------|---------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA50222</b> | HOST<br><b>Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|------------------------------|--------------------|---------------------------------------------------------------------------------------------------|

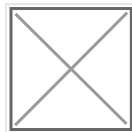
### PRODUCT SYNONYMS

TIM-4; Monoclonal Antibody; RAT ANTI MOUSE TIM-4; anti-TIM-4 antibody

### PRODUCT SPECIFICATIONS

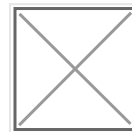
|                                                 |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rat                                                                                                                                                                                                                                                                                                                                                            |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                         | IgG2a                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                    | RMT4-54                                                                                                                                                                                                                                                                                                                                                        |
| Form/Format                                     | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                                                                                                              |
| Concentration                                   | IgG concentration 1.0mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                                 | 343                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-TIM-4 antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                 |
| Perservative Stabilisers                        | 0.09% Sodium Azide<br>Preparation                                                                                                                                                                                                                                                                                                                              |
| Immunogen                                       | Tim-4-Ig, consisting of amino acids 1-288 of mouse Tim-4, coupled with the Fc portion of mouse IgG2a.<br>Histology Positive Control Tissue                                                                                                                                                                                                                     |
| Target Species                                  | Mouse                                                                                                                                                                                                                                                                                                                                                          |
| 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. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 18 months from date of despatch. |

### IMAGES



#### Application Data

Mouse TIM-4 transfected NRK cells stained with Rat anti Mouse TIM-4:RPE



#### Application Data

Mouse TIM-4 transfected NRK cells stained with Rat anti Mouse TIM-4 (AAA50222)

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TIM-4 antibody | Rat anti Mouse TIM-4 antibody, clone RMT4-54 recognizes mouse Tim-4 (T-cell immunoglobulin mucin 4), a transmembrane glycoprotein and member of the immunoglobulin superfamily, exclusively expressed by antigen-presenting cells, which acts as the natural ligand of Tim-1, involved in T-cell expansion and cytokine production.Tim-4 is reported to be crucial for the phagocytosis of apoptotic cells by peritoneal macrophages, and studies have shown that interaction between Tim-1 on Th2 cells and Tim-4 on DCs, enhances Th2 cell function. The TIM-4 gene locus is associated with predisposition to asthma in both mice and humans and may be considered as a candidate disease gene for asthma. Clone RMT4-54 significantly inhibits the efficient phagocytosis of apoptotic cells by PRMs (peritoneal resident Mac1+ cells), but not PEMs (peritoneal exudate Mac1+ cells) (Nakayama, M. et al. 2009). |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 110624776                                                                                                                                                                                                                                                        |
| NCBI GeneID                      | 276891                                                                                                                                                                                                                                                           |
| NCBI Accession #                 | NP_848874.3                                                                                                                                                                                                                                                      |
| NCBI GenBank Nucleotide #        | NM_178759.4                                                                                                                                                                                                                                                      |
| UniProt Accession #              | Q6U7R4; Q6U7R3; Q8CIC7                                                                                                                                                                                                                                           |
| Molecular Weight                 | 37,548 Da                                                                                                                                                                                                                                                        |
| NCBI Official Full Name          | T-cell immunoglobulin and mucin domain-containing protein 4                                                                                                                                                                                                      |
| NCBI Official Synonym Full Names | T cell immunoglobulin and mucin domain containing 4                                                                                                                                                                                                              |
| NCBI Official Symbol             | Timd4                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Symbols    | Tim4; TIM-4; B430010N18Rik                                                                                                                                                                                                                                       |
| NCBI Protein Information         | T-cell immunoglobulin and mucin domain-containing protein 4; T-cell immunoglobulin and mucin domain containing 4; T-cell immunoglobulin mucin receptor 4; T-cell membrane protein 4; TIMD-4; smuckler; spleen, mucin-containing, knockout of lymphotoxin protein |
| UniProt Protein Name             | T-cell immunoglobulin and mucin domain-containing protein 4                                                                                                                                                                                                      |
| UniProt Gene Name                | Timd4                                                                                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | Tim4; TIMD-4; SMUCKLER; TIM-4                                                                                                                                                                                                                                    |
| UniProt Entry Name               | TIMD4_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.

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/tim-4-antibody-clone-rmt4-54-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/50222>