

## Anti-Tim-4 [3A1] Bulk size M Ab01059-1.6-BS

This is a Fab fragment with a his-tag.

This chimeric mouse antibody was made using the variable domain sequences of the original Rat IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse Fab fragment, His-Tagged, Kappa

**Clone Number:** 3A1

**Alternative Name(s) of Target:** TIMD4; SMUCKLER; SMUCKLER, TIM4; Spleen, mucin-containing, knockout of lymphotoxin protein; T-cell immunoglobulin and mucin domain containing 4; T-cell immunoglobulin and mucin domain-containing protein 4; T-cell immunoglobulin mucin receptor 4; T-cell membrane protein 4; TIM-4; TIMD-4

**UniProt Accession Number of Target Protein:** Q6U7R4

**Published Application(s):** FACS, ELISA, FC

**Published Species Reactivity:** Mouse

**Immunogen:** This antibody was generated by immunizing a female Lewis rat with Tim-4-Ig fusion protein.

**Specificity:** This antibody is specific for murine TIM-4. TIM-4, unlike other TIM family members, is not expressed on T lymphocytes but rather found on antigen-presenting cells such as lymphoid and myeloid dendritic cells and macrophages. TIM-4 has been shown to interact with TIM-1, thereby suggesting a role of TIM-4 in the balance of Th1/Th2 regulation. Additionally, TIM-4 has been shown to be a receptor for phosphatidylserine and may play a role in the engulfment of apoptotic cells.

**Application Notes:** The original version of this antibody (rat IgG1) specifically bound murine Tim-4 protein, as shown in ELISA and FC assays (Rodriguez-Manzanet et al., 2008; PMID: 18354194). This antibody can block apoptotic body (AB) recognition by CD11b<sup>+</sup> peritoneal macrophages and partially inhibit AB uptake by peritoneal B-1 cells (Rodriguez-Manzanet et al., 2010; PMID: 20368430).

**Antibody First Published in:** Rodriguez-Manzanet et al., TIM-4 expressed on APCs induces T cell expansion and survival J Immunol. 2008 Apr 1;180(7):4706-13. [PMID:18354194](#)

**Note on publication:** The original publication characterizes monoclonal antibodies generated to study how TIM-4 induces T-cell expansion and survival.

## Product Form

**Size:**

1 mg Purified antibody in bulk size.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** See vial label

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.