

Anti-Tim-4 [3A1] Standard Size Ab01059-2.0

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 IgG2a, 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⁺ 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: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

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