

Product Information

Anti-TIM4 (C-terminal)

produced in rabbit, affinity isolated antibody

Product Number **SAB4200011**

Product Description

Anti-TIM4 (C-terminal) is produced in rabbit using as the immunogen a synthetic peptide corresponding to a sequence at the C-terminal of human TIM4 (GeneID: 91937), conjugated to KLH. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-TIM4 (C-terminal) recognizes human TIM4. The antibody can be used by immunoblotting (~45, 85 kDa). Detection of the TIM4 bands by immunoblotting is specifically inhibited by the immunizing peptide.

T cell immunoglobulin and mucin domains containing protein 4 (TIM4, TIMD4) is a phosphatidylserine receptor that mediates phagocytosis of apoptotic cells. TIM4 belongs to the TIM family of proteins that are type I cell surface glycoproteins involved in the regulation of Th1 and Th2 immune responses. It consists of an immunoglobulin variable (IgV) domain with six cysteines, a heavily glycosylated mucin-like domain, a transmembrane domain, and a cytoplasmic domain. All TIMs contain a tyrosine phosphorylation motif in the cytoplasmic tail except for TIM4. TIM4 binds apoptotic cells by recognizing phosphatidylserine through its immunoglobulin domain. It is expressed primarily on mature APCs and is the natural ligand for TIM1. TIM1/TIM4 interaction regulates T cell activation and proliferation.¹⁻⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

Store at -20 °C. For continuous use, the product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 1-2 µg/mL is recommended using whole extracts of HEK-293T cells overexpressing human TIM4.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration.

References

1. Meyers, J.H. et al., *Nat. Immunol.*, **6**, 455-464 (2005).
2. Miyanishi, M. et al., *Nature*, **450**, 435-439 (2007).
3. Kobayashi, N. et al., *Immunity*, **27**, 927-940 (2007).
4. Rodriguez-Manzanet, R. et al., *J. Immunol.*, **180**, 4706-4713 (2008).

VS,ST,TD,KAA,PHC,MAM 04/19-1