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TIMD4 Antibody(C-term) Blocking peptide

Synthetic peptide
Catalog # BP19451b

Specification

TIMD4 Antibody(C-term) Blocking peptide - Product Information

Primary Accession Q96H15

TIMD4 Antibody(C-term) Blocking peptide - Additional Information

Gene ID 91937

Other Names
T-cell immunoglobulin and mucin domain-containing protein 4, TIMD-4, T-cell immunoglobulin mucin receptor 4, TIM-4, T-cell membrane protein 4, TIMD4, TIM4

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TIMD4 Antibody(C-term) Blocking peptide - Protein Information

Name TIMD4

Synonyms TIM4

Function
Phosphatidylserine receptor that plays different role in immune response including phagocytosis of apoptotic cells and T-cell regulation. Controls T-cell activation in a bimodal fashion, decreasing the activation of naive T-cells by inducing cell cycle arrest, while increasing proliferation of activated T-cells by activating AKT1 and ERK1/2 phosphorylations and subsequent signaling pathways (By similarity). Also plays a role in efferocytosis which is the process by which apoptotic cells are removed by phagocytic cells (PubMed:32703939, PubMed:34067457). Mechanistically, promotes the engulfment of apoptotic cells or exogenous particles by securing them to phagocytes through direct binding to phosphatidylserine present on apoptotic cells, while other engulfment receptors such as MERTK efficiently recognize apoptotic cells and mediate their ingestion (PubMed:32640697). Additionally, promotes autophagy process by suppressing NLRP3 inflammasome activity via activation of LKB1/PRKAA1 pathway in a phosphatidylserine-dependent mechanism (By similarity).

Cellular Location
Cell membrane; Single-pass type I membrane protein. Secreted, extracellular exosome

TIMD4 Antibody(C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

TIMD4 Antibody(C-term) Blocking peptide - Images

TIMD4 Antibody(C-term) Blocking peptide - Background

Phosphatidylserine receptor that enhances the engulfment of apoptotic cells. Involved in regulating T-cell proliferation and lymphotoxin signaling. Ligand for HAVCR1/TIMD1 (By similarity).

TIMD4 Antibody(C-term) Blocking peptide - References

Dorfman, D.M., et al. Hum. Pathol. 41(10):1486-1494(2010)Davila, S., et al. Genes Immun. 11(3):232-238(2010)Zhao, P., et al. Cell. Mol. Immunol. 7(2):152-156(2010)Cai, P.C., et al. Tissue Antigens 74(1):11-16(2009)Park, D., et al. Curr. Biol. 19(4):346-351(2009)