

**TIMD4 Antibody(C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP19451b****Specification**

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**TIMD4 Antibody(C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O96H15</a>
Other Accession	<a href="#">NP_612388.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	41578
Antigen Region	333-361

**TIMD4 Antibody(C-term) - 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

**Target/Specificity**

This TIMD4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 333-361 amino acids from the C-terminal region of human TIMD4.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

TIMD4 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**TIMD4 Antibody(C-term) - 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

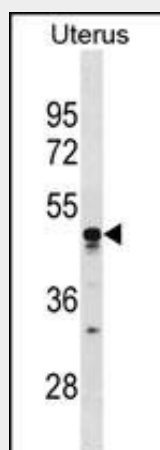
Cell membrane; Single-pass type I membrane protein. Secreted, extracellular exosome

#### TIMD4 Antibody(C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### TIMD4 Antibody(C-term) - Images



TIMD4 Antibody (C-term) (Cat. #AP19451b) western blot analysis in human Uterus tissue lysates (35ug/lane). This demonstrates the TIMD4 antibody detected the TIMD4 protein (arrow).

#### TIMD4 Antibody(C-term) - 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) - 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)