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Anti-TIM4 Antibody

Catalog # AP96077

Product Information

Application	WB, FC
Primary Accession	Q96H15
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	41578

Additional Information

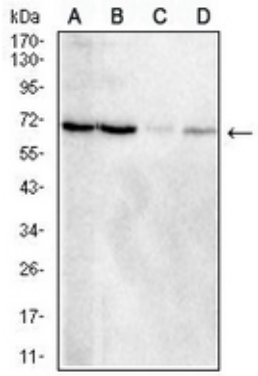
Gene ID	91937
Other Names	TIM4; T-cell immunoglobulin and mucin domain-containing protein 4; TIMD-4; T-cell immunoglobulin mucin receptor 4; TIM-4; T-cell membrane protein 4
Target/Specificity	Recombinant fusion protein of human TIM4 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200)
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

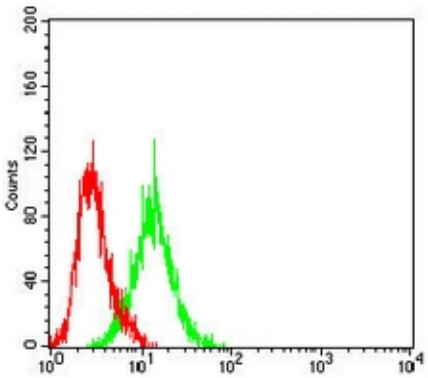
Name	TIMD4
Synonyms	TIM4
Function	Phosphatidylserine receptor that plays different role in immune response including phagocytosis of apoptotic cells and T-cell regulation (PubMed:18082433, PubMed:32640697). Involved in efferocytosis, the process by which apoptotic cells are removed by phagocytic cells by promoting the engulfment of apoptotic cells or exogenous particles (PubMed:18082433, PubMed:32703939, PubMed:34067457). Mechanistically, acts by securing apoptotic cells 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). 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 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
Tissue Location	Expressed by macrophages and dendritic cells.

Images



Western blot analysis of TIM4 expression in Jurkat (A), HEK293 (B), HL60 (C), Hela (D) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 70 kD)



Flow cytometric analysis of Jurkat cells using Anti-TIM4 Antibody (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.