Datasheet for ABIN7566381

TIMD4 Protein (AA 25-315) (Fc Tag)

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Overview

Quantity:	100 µg
Target:	TIMD4
Protein Characteristics:	AA 25-315
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TIMD4 protein is labelled with Fc Tag.

Product Details

Purpose:	Tim-4 (human):Fc (mouse) (rec.)
Cross-Reactivity:	Human
Characteristics:	The extracellular domain of human Tim-4 (aa 25-315) is fused to the N-terminus of the Fc region of mouse IgG2a.
Purity:	>98 % (SDS-PAGE)
Sterility:	Sterile filtered
Endotoxin Level:	<5EU/mg protein (LAL test, Lonza).
Biological Activity Comment:	Measured by its ability to inhibit anti-CD3-induced proliferation of stimulated human T cells.

Target Details

Target:	TIMD4
Alternative Name:	Tim-4 (TIMD4 Products)
Background:	TIM4, TIMD4, T Cell Immunoglobulin and Mucin Domain-containing Protein 4, T Cell Membrane Protein 4 The TIM (T cell/transmembrane, immunoglobulin and mucin) family plays a critical role in regulating immune responses, including allergy, asthma, transplant tolerance, autoimmunity and the response to viral infections. The unique structure of TIM immunoglobulin variable region domains allows highly specific recognition of phosphatidylserine (PtdSer), exposed on the surface of apoptotic cells. TIM-4 (T cell, immunoglobulin, Mucin-4), also known as SMUCKLER, is a 60 kDa member of the TIM family of immune regulating proteins. TIM-4 is exclusively expressed on antigen-presenting cells, where it mediates phagocytosis of apoptotic cells and plays an important role in maintaining tolerance. TIM-4 binds specifically to TIM-1 which is also the cellular receptor for the hepatitis A virus, and has been implicated in the development of asthma. Among hematopoietic cells, TIM-1 is expressed on activated B and T cells, preferentially in the Th2 subset of CD4+ T cells. The interaction of TIM-4 with TIM-1 induces costimulatory and hyperproliferative signals in T cells.
Molecular Weight:	~80kDa (SDS-PAGE)
NCBI Accession:	NP_612388
Pathways:	Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from 0.2μm-filtered solution in PBS.
Handling Advice:	Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.