

Datasheet for ABIN7566390

VSTM5 Protein (AA 29-147) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	VSTM5
Protein Characteristics:	AA 29-147
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VSTM5 protein is labelled with Fc Tag.

Product Details

Purpose:	VSTM5 (human):Fc (human) (rec.) (non-lytic)
Cross-Reactivity:	Human
Characteristics:	The extracellular domain of human VSTM5 (aa 29-147) is fused to the N-terminus of the human Fc IgG1 (non-lytic mutant).
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.01EU/µg purified protein (LAL test).

Target Details

Target:	VSTM5
Alternative Name:	VSTM5 (VSTM5 Products)
Background:	V-set and Transmembrane Domain-containing Protein 5, C11orf90

Target Details

The V-set and transmembrane domain-containing protein (VSTM) family is composed of 8 proteins: VSTM1v1, VSTM1v2, VSTM2a, VSTM2b, VSTM2L, VSTM3, VSTM4 and VSTM 5. Members of the VSTM family are associated with the regulation of functions of immune cells, adipose cells and neuronal cells. The VSTM family is an immunoglobulin (Ig) superfamily that shares structural similarities with the B7-like transmembrane proteins involved in immune regulation. VSTM1 and VSTM4 play positive and negative roles in macrophage activation, respectively. VSTM3 (TIGIT) acts as a co-inhibitory receptor that suppresses the cytokine production of T cells and NK cells. V-set and transmembrane domain-containing protein 5 (Vstm5), a newly characterized small membrane glycoprotein highly expressed in the CNS, facilitates the formation of neuronal dendrites and protrusions such as dendritic filopodia. Regulatory roles of VSTM5 for in vitro and in vivo immune responses have been reported. VSTM5 functions as a novel immune checkpoint by regulating T cell proliferation and cytokine production, Treg generation by maintenance of T cell energy and possibly induction of T cell apoptosis.

Molecular Weight: ~55kDa (SDS-PAGE)

UniProt: [A8MXK1](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 1 mg/mL after reconstitution.

Concentration: 1 mg/mL

Buffer: Contains PBS.

Handling Advice: After reconstitution, prepare aliquots and store at -20 °C. 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 6 months after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.