Datasheet for ABIN1097805

VSIG4 Protein (AA 20-284) (His tag)

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Overview

Quantity:	50 µg
Target:	VSIG4
Protein Characteristics:	AA 20-284
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VSIG4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human V-Set and Ig Domain-Containing Protein 4/VSIG4/CRIg (C-6His)
Sequence:	RPILEVPESV TGPWKGDVNL PCTYDPLQGY TQVLVKWLVQ RGSDPVTIFL RDSSGDHIQQ AKYQGRLHVS HKVPGDVSLQ LSTLEMDDRS HYTCEVTWQT PDGNQVVRDK ITELRVQKLS VSKPTVTTGS GYGFTVPQGM RISLQCQARG SPPISYIWYK QQTNNQEPIK VATLSTLLFK PAVIADSGSY FCTAKGQVGS EQHSDIVKFV VKDSSKLLKT KTEAPTTMTY PLKATSTVKQ SWDWTTDMDG YLGETSAGPG KSLPVDHHHH HH
Characteristics:	Recombinant Human V-Set and Immunoglobulin Domain-Containing Protein 4/VSIG4 produced by transfected human cells is a secreted protein with sequence (Arg20-Val284) of Human VSIG4 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	VSIG4
Alternative Name:	vsig4 (VSIG4 Products)
Sub Type:	Fusionprotein
Background:	V-Set and Immunoglobulin Domain-Containing Protein 4 (VSIG4) is a 45-50 kDa macrophage-specific transmembrane glycoprotein that belongs to the B7 family-related protein and an Ig superfamily member. In contrast to the B7 family members which contain two IgG domains, VSIG4 contains one complete V-type Ig domain and a truncated C-type I g domain. VSIG4 is abundantly expressed in several fetal tissues. In adult tissues, the highest expression of VSIG4 is in lung and placenta. It is also expressed in resting macrophages. No VSIG4 expression appears to be present in T and B cells. The specific expression of VSIG4 on resting macrophages in tissue suggests that this inhibitory ligand may be important for the maintenance of T cell unresponsiveness in healthy tissues. VSIG4 functions as a negative regulator of T cell activation, and may be involved in the maintenance of peripheral T cell tolerance, and is also identified as a potent suppressor of established inflammation. VSIG4 is a phagocytic receptor, strong negative regulator of T-cell proliferation and IL2 production. It is a potent inhibitor of the alternative complement pathway convertases. Human VSIG4 is 399 amino acids (aa) in length. It is a type I transmembrane (TM) glycoprotein that contains a 264 aa extracellular domain (ECD) (aa 20 - 283) and a 95 aa cytoplasmic region. Alternative Names: V-Set and Immunoglobulin Domain-Containing Protein 4, Protein Z39Ig, VSIG4, CRIg, Z39IG
Molecular Weight:	30.2 kDa
UniProt:	Q9Y279

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months