Datasheet for ABIN7520635

VCAM1 Protein (His tag)

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Overview

Quantity:	20 µg
Target:	VCAM1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VCAM1 protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human VCAM-1/CD106 Protein
Sequence:	FKIETTPESR YLAQIGDSVS LTCSTTGCES PFFSWRTQID SPLNGKVTNE GTTSTLTMNP VSFGNEHSYL CTATCESRKL EKGIQVEIYS FPKDPEIHLS GPLEAGKPIT VKCSVADVYP FDRLEIDLLK GDHLMKSQEF LEDADRKSLE TKSLEVTFTP VIEDIGKVLV CRAKLHIDEM DSVPTVRQAV KELQVYISPK NTVISVNPST KLQEGGSVTM TCSSEGLPAP EIFWSKKLDN GNLQHLSGNA TLTLIAMRME DSGIYVCEGV NLIGKNRKEV ELIVQEKPFT VEISPGPRIA AQIGDSVMLT CSVMGCESPS FSWRTQIDSP LSGKVRSEGT NSTLTLSPVS FENEHSYLCT VTCGHKKLEK GIQVELYSFP RDPEIEMSGG LVNGSSVTVS CKVPSVYPLD RLEIELLKGE TILENIEFLE DTDMKSLENK SLEMTFIPTI EDTGKALVCQ AKLHIDDMEF EPKQRQSTQT LYVNVAPRDT TVLVSPSSIL EEGSSVNMTC LSQGFPAPKI LWSRQLPNGE LQPLSENATL TLISTKMEDS GVYLCEGINQ AGRSRKEVEL IIQVTPKDIK LTAFPSESVK EGDTVIISCT CGNVPETWII LKKKAETGDT VLKSIDGAYT IRKAQLKDAG VYECESKNKV GSQLRSLTLD VQGRENNKDY FSPE

Product Details

Specificity:	Phe25-Glu698
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.22 μm filtered
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of U937 human histiocytic lymphoma cells. When 5 x 10E4 cells/well are added to human VCAM1 coated plates (10 μg/mL with 100 μL/well), approximately 80%-90% cells will adhere after 1 hour at 37°C.|2.Measured by its binding ability in a functional ELISA.Immobilized APC anti-human CD106 Antibody at 1μg/mL (25 μL/well) can bind Human VCAM1 with a linear range of 0.46-16.9ng/mL.

Target Details

Target:	VCAM1
Alternative Name:	VCAM-1/CD106 (VCAM1 Products)
Background:	Description: This protein also known as CD16, is a cell surface sialoglycoprotein belonging to the immunoglobulin superfamily. Two forms of VCAM-1 with either six or seven extracellular Ig-like domains are generated by alternative splicing, with the longer form predominant. VCAM-1 is an endothelial ligand for very late antigen-4 (VLA-4) and α4ß7 integrin expressed on leukocytes, and thus mediates leukocyte-endothelial cell adhesion and signal transduction. VCAM-1 expression is induced on endothelial cells during inflammatory bowel disease, atherosclerosis, allograft rejection, infection, and asthmatic responses. During these responses, VCAM-1 forms a scaffold for leukocyte migration. VCAM-1 also activates signals within endothelial cells resulting in the opening of an "endothelial cell gate" through which leukocytes migrate. VCAM-1 has been identified as a potential anti-inflammatory therapeutic target, the hypothesis being that reduced expression of VCAM-1 will slow the development of atherosclerosis. In addition, VCAM-1-activated signals in endothelial cells are regulated by cytokines indicating that it is important to consider both endothelial cell adhesion molecule expression and function during inflammatory processes. Name: CD106,INCAM-100,VCAM1
Gene ID:	7412
UniProt:	P19320
Pathways:	Carbohydrate Homeostasis

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Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

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