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Datasheet for ABIN7196248
ICAM-3/CD50 Protein (His tag)

Overview

Quantity:	100 µg
Target:	ICAM-3/CD50 (ICAM3)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ICAM-3/CD50 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CD50/ICAM-3 Protein (His Tag)(Active)
Sequence:	Met 1-His 485
Characteristics:	A DNA sequence encoding the extracellular domain of human ICAM3 (NP_002153.2) (Met 1-His 485) was expressed, with the C-terminal fused polyhistidine tag.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated HSB2 human peripheral blood acute lymphoblastic leukemia cells. When cells are added to ICAM3-coated plates (12.5 µg/mL , 100 µL/well), approximately >25% cells will adhere specifically.

Target Details

Target: ICAM-3/CD50 (ICAM3)

Alternative Name: CD50/ICAM-3 ([ICAM3 Products](#))

Background: The protein ICAM-3, also known as CD50, is a member of the intercellular adhesion molecule (ICAM) family consisting three members. It is a DC-SIGN ligand that is constitutively expressed on resting leukocytes, and is thus an important molecule for the first immune response. ICAM-3 comprises of five immunoglobulin-like domains, and binds LFA-1 through its two N-terminal domains. It functions not only as an adhesion molecule, but also as a potent signalling molecule. ICAM-3 binds to LFA-1 on antigen-presenting cells (APC) stabilizing the T cell-APC interaction, facilitating signaling through the CD3/TCR complex. However, recent evidence using cultured and transformed T cells suggests ICAM-3 may also function in signaling. It has been reported that CD50 Molecule can play a role in developing functionally mature T lymphocytes and its expression increases during the maturation process of T lymphocytes. In addition, the interactions of ICAM-3 and LFA-1 facilitate HIV-1- induced virological synapse formation between T cells. ICAM-3 is associated with an increase of cellular radio-resistance and cancer cell proliferation. It could be considered as a candidate for anti-cancer drug development and as a cancer diagnostic marker.

Synonym: CD50,CDW50,ICAM-3,ICAM-R

Molecular Weight: 50.8 kDa

NCBI Accession: [NP_002153](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.5

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
