Datasheet for ABIN7317479

SEMA4D/CD100 Protein (His tag)

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Overview

Quantity:	50 µg
Target:	SEMA4D/CD100 (SEMA4D)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SEMA4D/CD100 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Semaphorin 4D/SEMA4D Protein (His Tag)(Active)
Sequence:	Met 1-Arg 734
Characteristics:	A DNA sequence encoding the human SEMA4D isoform 1 (Q92854-1) extracellular domain (Met 1-Arg 734) was expressed, with a polyhistidine tag at the C-terminus.
Purity:	> 92 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized human SEMA4D-His at 10 µg/ml (100 µl/well) can bind mouse PTPRC-Fc with a linear range of 0.625-5 µg/ml.

Target Details

Target:	SEMA4D/CD100 (SEMA4D)

Target Details

Alternative Name:	Semaphorin 4D/SEMA4D (SEMA4D Products)
Background:	Background: SIGLEC5 contains 2 Ig-like C2-type (immunoglobulin-like) domains and 1 Ig-like V-type (immunoglobulin-like) domain. It belongs to the immunoglobulin superfamily and SIGLEC (sialic acid binding Ig-like lectin) family. SIGLEC5 is expressed by monocytic/myeloid lineage cells. It is found at high levels in peripheral blood leukocytes, spleen, bone marrow and at lower levels in lymph node, lung, appendix, placenta, pancreas and thymus. It is also expressed by monocytes and neutrophils but absent from leukemic cell lines representing early stages of myelomonocytic differentiation. SIGLEC5 is a putative adhesion molecule that mediates sialic-acid dependent binding to cells. It binds equally to alpha-2,3-linked and alpha-2,6-linked sialic acid. The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. Synonym: Semaphorin-4D, A8,BB18, GR3, CD100,C9orf164,CD100,coll-4,M-sema-G,SEMAJ
Molecular Weight:	80.7 kDa
Pathways:	Regulation of Cell Size

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 7.4
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.