

Datasheet for ABIN7320711
SEMA4D/CD100 Protein (Fc Tag)[Go to Product page](#)

1 Image

Overview

Quantity:	50 µg
Target:	SEMA4D/CD100 (SEMA4D)
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA4D/CD100 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Mouse Semaphorin-4D/SEMA4D Protein (Fc Tag)
Sequence:	Phe24-Met711
Characteristics:	Recombinant Mouse Semaphorin 4D is produced by our Mammalian expression system and the target gene encoding Phe24-Met711 is expressed with a Fc tag at the C-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	Semaphorin-4D/SEMA4D (SEMA4D Products)
Background:	Background: SEMA4D is a member of the semaphorin family, contains one Ig-like C2-type domain, one PSI domain and one Sema domain. SEMA4D is strongly expressed in lymphoid tissues, especially in the thymus, as well as in the nervous tissues. However, SEMA4D is

Target Details

expressed at lower levels in testes, brain, kidney, small intestine, prostate, heart, placenta, lung and pancreas, but not in colon and liver. SEMA4D is a cell surface receptor for PLXN1B and PLXNB2 that plays an important role in cell-cell signaling. SEMA4D is involved in a number of fundamental biological processes such as promoting reorganization of the actin cytoskeleton, the migration of cerebellar granule cells and of endothelial cells and signaling via SRC and PTK2B/PYK2, which then mediates activation of phosphatidylinositol 3-kinase and of the AKT1 signaling cascade. Not only these, it plays a role in axonal growth cone guidance in the developing central nervous system. Semaphorin-4D / SEMA4D may play a functional role in the immune system, as well as in the nervous system. It could induce B-cells to aggregate and improves their viability (in vitro). SEMA4D is involved in regulating dendrite and axon branching and morphogenesis and promoting interaction with PLXNB1 mediates activation of RHOA. Synonym: SEMA4D, Semaphorin-4D, M-Sema G, Semaphorin-C-like 2, Semaphorin-J, Sema J, CD100, Semacl2, Semaj, coll-4, Semacl2, Semaj

Molecular Weight: 103.4 kDa

NCBI Accession: [NP_038688](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Restrictions: For Research Use only

Handling

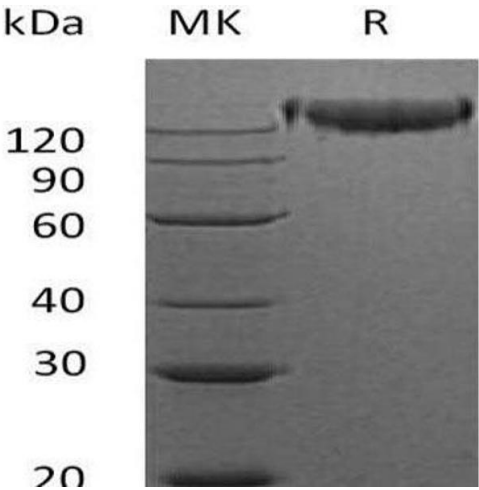
Format: Lyophilized

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

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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.



Western Blotting

Image 1.