

## **PRODUCT INFORMATION**

SEMA4D **Target** 

**Synonyms** A8;BB18;GR3;CD100;C9orf164;CD100;SEMAI Recombinant human SEMA4D protein with C-**Description** 

terminal 6×His tag

**Delivery** In Stock **Uniprot ID** Q92854 **Expression Host HEK293** Tag C-6×His Tag

Molecular

SEMA4D(Met22-Arg734) 6×His tag Characterization

The protein has a predicted molecular mass of 80 kDa after removal of the signal peptide. The apparent molecular mass of SEMA4D-His is **Molecular Weight** 

approximately 95-130 kDa due to glycosylation. The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue

Purity staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling (PubMed:20877282). Regulates GABAergic synapse development (By similarity). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (By similarity). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1

mediates activation of RHOA (PubMed:19788569). Promotes the migration of cerebellar granule cells (PubMed:16055703). Plays a role in the immune

system; induces B-cells to aggregate and

improves their viability (in vitro) (PubMed:8876214). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway (PubMed:16055703).[UniProtKB/Swiss-Prot Function]

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**Usage** Research use only

Conjugate Unconjugated

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**Background** 



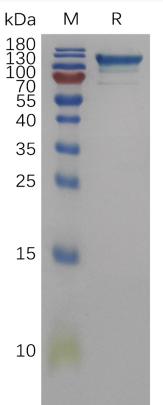
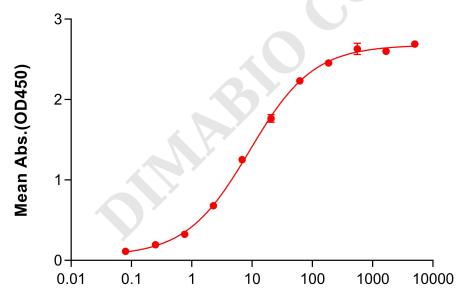


Figure 1. Human SEMA4D Protein, His Tag on SDS-PAGE under reducing condition.

## Human SEMA4D, His Tagged protein ELISA

0.2 μg of Human SEMA4D, His tagged protein per well



Anti-SEMA4D(pepinemab biosimilar) mAb (ng/mL)

Figure 2. ELISA plate pre-coated by 2  $\mu$ g/mL (100  $\mu$ L/well) Human SEMA4D Protein, His Tag (PME101131) can bind Anti-SEMA4D (pepinemab biosimilar) mAb (BME100614) in a linear range of 2.29–20.58 ng/mL.

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