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Datasheet for ABIN7275565

## SEMA4D/CD100 Protein (His-Avi Tag)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	SEMA4D/CD100 (SEMA4D)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA4D/CD100 protein is labelled with His-Avi Tag.

#### Product Details

Sequence:	Met22-Arg734
Purity:	> 95% as determined by Tris-Bis PAGE, > 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human Semaphorin 4D, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-Semaphorin 4D Antibody, hFc Tag with the EC50 of 9.3 ng/ml determined by ELISA. See testing image for detail.

#### Target Details

Target:	SEMA4D/CD100 (SEMA4D)
Alternative Name:	Semaphorin 4D ( <a href="#">SEMA4D Products</a> )
Background:	Semaphorin-4D, CD100, SEMA4D, C9orf164, FLJ33485, FLJ34282, FLJ39737, FLJ46484, M-sema-G, MGC169138, MGC169141, SEMAJ, coll-4, Semaphorin 4D (Sema4D) is a

## Target Details

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multifunctional protein widely expressed in an organism that plays an important role in the control of many physiological and pathological processes, including immunoregulation, neurogenesis, angiogenesis, and tumor progression.

Molecular Weight: 82.1 kDa. Due to glycosylation, the protein migrates to 115-140 kDa based on Tris-Bis PAGE result.

Pathways: [Regulation of Cell Size](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

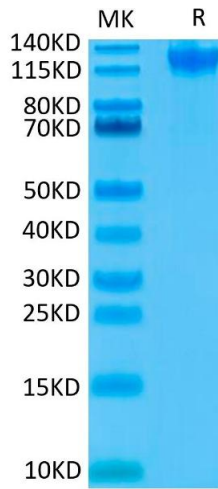
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C, -80 °C

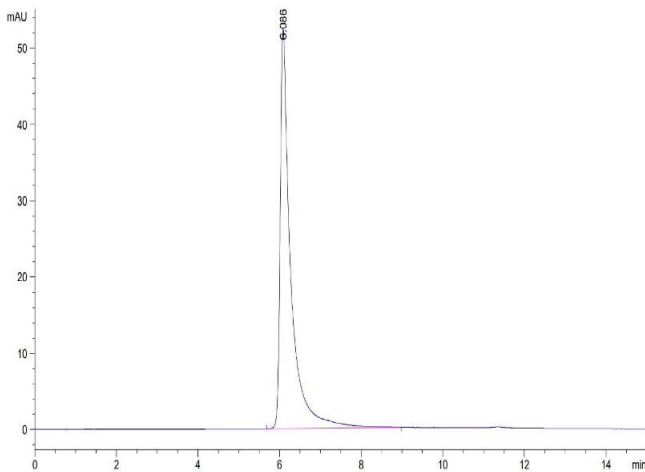
Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



### SDS-PAGE

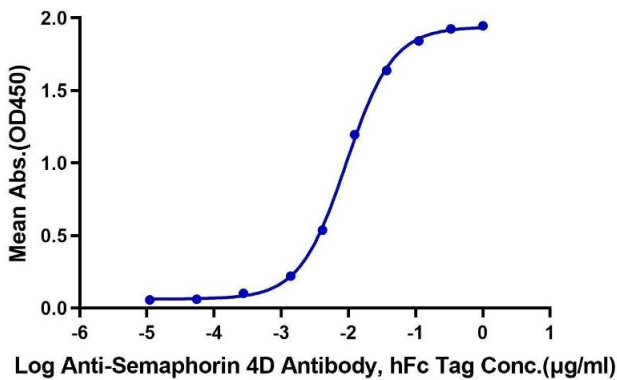
**Image 1.** Human Semaphorin 4D on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human Semaphorin 4D is greater than 95 % as determined by SEC-HPLC.

**Human Semaphorin 4D, His Tag ELISA**  
0.1µg Human Semaphorin 4D, His Tag Per Well



### ELISA

**Image 3.** Immobilized Human Semaphorin 4D, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-Semaphorin 4D Antibody , hFc Tag with the EC50 of 9.3 ng/mL determined by ELISA.