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Datasheet for ABIN7275563

### SEMA4B Protein (AA 44-717) (His tag)

2 Images



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#### Overview

Quantity:	100 μg
Target:	SEMA4B
Protein Characteristics:	AA 44-717
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SEMA4B protein is labelled with His tag.

#### **Product Details**

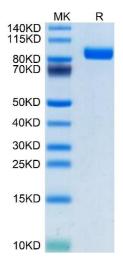
Purpose:	Human SEMA4B Protein
Sequence:	Leu44-Glu717
Characteristics:	Recombinant Human SEMA4B Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Leu44-Glu717.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

#### **Target Details**

Target:	SEMA4B
Alternative Name:	SEMA4B (SEMA4B Products)

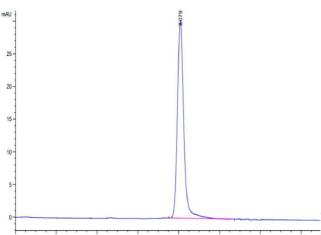
#### **Target Details**

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Background:	Semaphorin 4B (SEMA4B) inhibits the invasion of non-small cell lung cancer (NSCLC) through PI3K-dependent suppression of MMP9 activation. SEMA4B may induce FoxO1 nuclear retention through suppressing PI3K/Akt signaling pathway, which subsequently inhibited cell growth through the direct nuclear target of FoxO1, p21. A role of SEMA4B in suppressing NSCLC growth, besides its role in inhibiting cell metastasis, and highlights SEMA4B as a promising therapeutic target for NSCLC.
Molecular Weight:	75.8 kDa. Due to glycosylation, the protein migrates to 80-110 kDa based on Tris-Bis PAGE result.
UniProt:	Q9NPR2
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



#### **SDS-PAGE**

Image 1. Human SEMA4B 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 SEMA4B is greater than 95 % as determined by SEC-HPLC.