### Mouse SEMA4B Protein

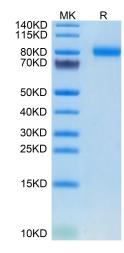
#### Cat. No. SEM-MM14B

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Description	
Source	Recombinant Mouse SEMA4B Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Leu31-Glu703.
Accession	Q62179
Molecular Weight	The protein has a predicted MW of 75.7 kDa. Due to glycosylation, the protein migrates to 78-83 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC
Formulation and S	Storage
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt20 to -80°C for 3-6 months in unopened state 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.
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.
Assav Data	

### Assay Data





Mouse SEMA4B on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

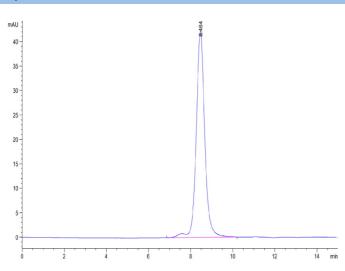
SEC-HPLC

#### Mouse SEMA4B Protein

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# Assay Data





The purity of Mouse SEMA4B is greater than 95% as determined by SEC-HPLC.