

Mouse SEMA4B Protein

Cat. No. SEM-MM14B

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 Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μ g by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

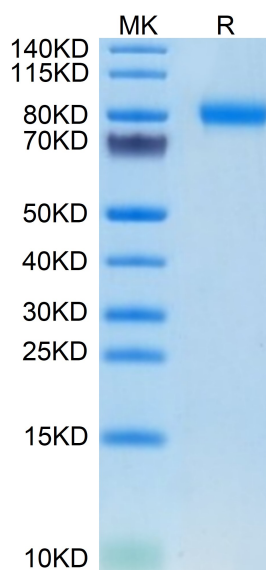
Formulation	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

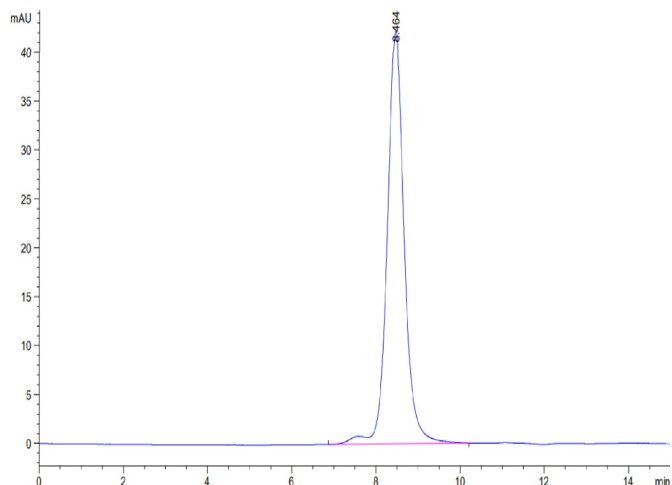
Bis-Tris PAGE



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

SEC-HPLC

Assay Data



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