

Semaphorin 3F Active Protein | SEMA3F active protein

Active Semaphorin 3F (SEMA3F)

CATALOG #
AAA150147

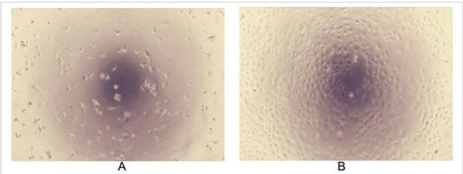
APPLICATIONS
Activity Assay, Cell Culture

PRODUCT SYNONYMS

Semaphorin 3F; Active Semaphorin 3F (SEMA3F); SEMA-IV; SEMA4; SEMAK; Sema Domain; Immunoglobulin Domain(Ig); Transmembrane Domain(TM)and Short Cytoplasmic Domain 3F; SEMA3F active protein

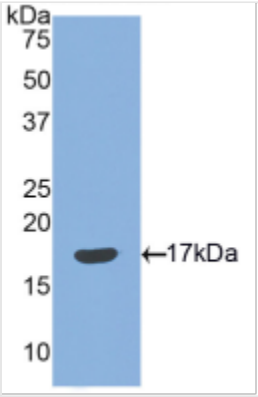
PRODUCT SPECIFICATIONS

Purity/Purification	>95%
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence Positions	Val350-Leu483
Sequence Length	785
Applicable Applications for SEMA3F active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Isoelectric Point	9.2
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

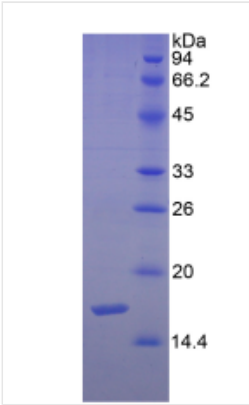


Application Data

Semaphorin-3F (SEMA3F) is a member of semaphorins family. All the family members have a secretion signal, a 500-amino acid sema domain, and 16 conserved cysteine residues. Semaphorins not only guide axons in development, but also have major roles in immune function (classes 4, 6, and 7) and the development of bones. Class 3 semaphorins are one of the most versatile semaphorin classes, in which Sema3a is the most studied. Besides, SEMA3F is deleted or downregulated in many metastatic tumors. To test the effect of SEMA3F on inhibit cell proliferation, human lung carcinoma cells A549 were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well and allowed to attach, replaced with serum-free overnight, then the medium was replaced with 2% serum standard DMEM prior to the addition of various concentrations of recombinant human SEMA3F. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37. Proliferation of A549 cells after incubation with SEMA3F for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 assay after incubation with recombinant SEMA3F for 48h. The result was shown in Figure 2. It was obvious that SEMA3F significantly increased cell viability of A549 cells. (A) A549 cells cultured in DMEM, stimulated with 100ng/mL SEMA3F for 48h; (B) Unstimulated A549 cells cultured in DMEM for 48h. Figure. Cell proliferation of A549 cells inhibition by stimulating with SEMA3F.



WB (Western Blot)
Figure. Western Blot



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for SEMA3F active protein	CD & Adhesion molecule
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NCBI AND UNIPROT INFORMATION

NCBI GI #	188497703
NCBI GeneID	6405
NCBI Accession #	NP_004177.3
NCBI GenBank Nucleotide #	NP_004177.3
UniProt Accession #	Q13275
Molecular Weight	Predicted Molecular Mass: 16.6kDa Accurate Molecular Mass: 16kDa

NCBI Official Full Name	semaphorin-3F isoform 1
NCBI Official Synonym Full Names	semaphorin 3F
NCBI Official Symbol	SEMA3F
NCBI Official Synonym Symbols	SEMA4; SEMAK; SEMA-IV
NCBI Protein Information	semaphorin-3F
UniProt Protein Name	Semaphorin-3F
UniProt Gene Name	SEMA3F
UniProt Synonym Gene Names	Sema IV

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sema3f-active-protein/semaphorin-3f/150147>