

Product datasheet for TP310966L

OriGene Technologies, Inc.

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Semaphorin 7a (SEMA7A) (NM_003612) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human semaphorin 7A, GPI membrane anchor (John Milton Hagen

blood group) (SEMA7A), 1 mg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC210966 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MTPPPPGRAAPSAPRARVPGPPARLGLPLRLRLLLLLWAAAASAQGHLRSGPRIFAVWKGHVGQDRVDFG QTEPHTVLFHEPGSSSVWVGGRGKVYLFDFPEGKNASVRTVNIGSTKGSCLDKRDCENYITLLERRSEGL LACGTNARHPSCWNLVNGTVVPLGEMRGYAPFSPDENSLVLFEGDEVYSTIRKQEYNGKIPRFRRIRGES ELYTSDTVMQNPQFIKATIVHQDQAYDDKIYYFFREDNPDKNPEAPLNVSRVAQLCRGDQGGESSLSVSK WNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGQWRDTRVYGVFSNPWNYSAVCVYSLGDIDKVFRTSS LKGYHSSLPNPRPGKCLPDQQPIPTETFQVADRHPEVAQRVEPMGPLKTPLFHSKYHYQKVAVHRMQASH GETFHVLYLTTDRGTIHKVVEPGEQEHSFAFNIMEIQPFRRAAAIQTMSLDAERRKLYVSSQWEVSQVPL DLCEVYGGGCHGCLMSRDPYCGWDQGRCISIYSSERSVLQSINPAEPHKECPNPKPDKAPLQKVSLAPNS RYYLSCPMESRHATYSWRHKENVEQSCEPGHQSPNCILFIENLTAQQYGHYFCEAQEGSYFREAQHWQLL

PEDGIMAEHLLGHACALAASLWLGVLPTLTLGLLVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 70.3 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.





RefSeq ORF:

Semaphorin 7a (SEMA7A) (NM_003612) Human Recombinant Protein - TP310966L

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 003603

Locus ID: 8482

UniProt ID: <u>075326</u>, <u>B3KMH6</u>

1998

RefSeq Size: 3393 **Cytogenetics:** 15q24.1

Synonyms: CD108; CDw108; H-SEMA-K1; H-Sema-L; JMH; SEMAK1; SEMAL

Summary: This gene encodes a member of the semaphorin family of proteins. The encoded

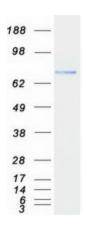
preproprotein is proteolytically processed to generate the mature glycosylphosphatidylinositol

(GPI)-anchored membrane glycoprotein. The encoded protein is found on activated lymphocytes and erythrocytes and may be involved in immunomodulatory and neuronal processes. The encoded protein carries the John Milton Hagen (JMH) blood group antigens. Mutations in this gene may be associated with reduced bone mineral density (BMD). Alternative splicing results in multiple transcript variants, at least one of which encodes an

isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]

Protein Pathways: Axon guidance

Product images:



Coomassie blue staining of purified SEMA7A protein (Cat# [TP310966]). The protein was produced from HEK293T cells transfected with SEMA7A cDNA clone (Cat# [RC210966]) using MegaTran 2.0 (Cat# [TT210002]).