Recombinant Human SEMA7A Protein, His&Fc tagged

Cat. No. SEMA7A-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SEMA7A (45-648 aa), fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
ProteinLength	45-648 aa
Description	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.
Form	Liquid
AASequence	QGHLRSGPRIFAVWKGHVGQDRVDFGQTEPHTVLFHEPGSSSVWVGGRGKVYLF DFPEGKNASVRTVNIGSTKGSCLDKRDCENYITLLERRSEGLLACGTNARHPSCWN LVNGTVVPLGEMRGYAPFSPDENSLVLFEGDEVYSTIRKQEYNGKIPRFRRIRGESE

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	LYTSDTVMQNPQFIKATIVHQDQAYDDKIYYFFREDNPDKNPEAPLNVSRVAQLCRG DQGGESSLSVSKWNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGQWRDTRVYG VFSNPWNYSAVCVYSLGDIDKVFRTSSLKGYHSSLPNPRPGKCLPDQQPIPTETFQV ADRHPEVAQRVEPMGPLKTPLFHSKYHYQKVAVHRMQASHGETFHVLYLTTDRGTI HKVVEPGEQEHSFAFNIMEIQPFRRAAAIQTMSLDAERRKLYVSSQWEVSQVPLDLC EVYGGGCHGCLMSRDPYCGWDQGRCISIYSSERSVLQSINPAEPHKECPNPKPDK APLQKVSLAPNSRYYLSCPMESRHATYSWRHKENVEQSCEPGHQSPNCILFIENLT AQQYGHYFCEAQEGSYFREAQHWQLLPEDGIMAEHLLGHACALA
Molecular Mass	95.7 kDa
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.25 mg/mL (determined by absorbance at 280nm)

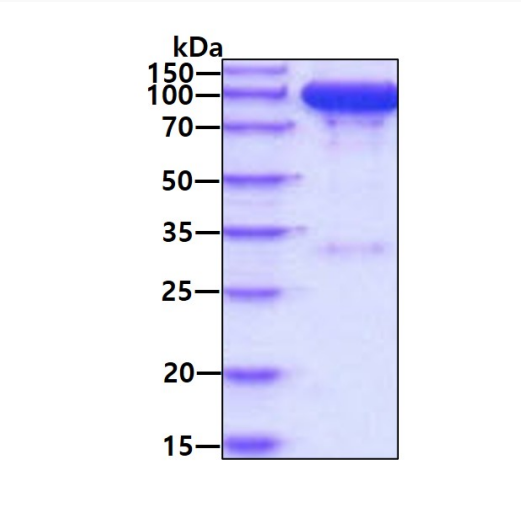
GENE INFORMATION

Gene ID	8482
Gene Name	SEMA7A semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group) [Homo sapiens (human)]
Official Symbol	8482

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Synonyms	SEMA7A; semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group); sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A, sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (JMH blood group), SEMAL; semaphorin-7A; CD108; H Sema K1; H Sema L; John Milton Hagen blood group; sema L; sema K1; semaphorin L; semaphorin-L; semaphorin K1; semaphorin-K1; JMH blood group antigen; John Milton Hagen blood group H-Sema K1; john-Milton-Hargen human blood group Ag; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, 7A; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (JMH blood group); JMH; SEMAL; CDw108; SEMAK1; H-Sema-L; H-SEMA-K1; MGC126692; MGC126696;
mRNA Refseq	NM_003612
Official Symbol 2	SEMA7A
Gene ID 2	8482
Gene Name 2	SEMA7A semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group) [Homo sapiens (human)]
mRNA Refseq 2	NM_003612
Protein Refseq 2	NP_003603
MIM 2	607961
UniProt ID 2	O75326

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SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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