

Recombinant Human SEMA7A 293 Cell Lysate

Cat. No. SEMA7A-1978HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group) (SEMA7A), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	SEMA7A semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group) [Homo sapiens]
Official Symbol	SEMA7A
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-Hagen 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;
Gene ID	8482
mRNA Refseq	NM_001146029
Protein Refseq	NP_001139501
UniProt ID	O75326
Chromosome Location	15q22.3-q23

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Pathway

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;
Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Other semaphorin interactions, organism-specific biosystem;
Semaphorin interactions, organism-specific biosystem;

Function

integrin binding; protein binding; receptor activity;

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