

## Recombinant Human SEMA7A 293 Cell Lysate

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

### SPECIFICATION

#### Product Overview

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                                                                                                                                                                                                                   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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 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-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;

**Gene ID** 8482

**mRNA Refseq** NM\_001146029

**Protein Refseq** NP\_001139501

**UniProt ID** O75326

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 15q22.3-q23                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | integrin binding; protein binding; receptor activity;                                                                                                                                                                                                                                             |

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