

## 32-13401: SEMA7A Human

**Alternative Name :** Semaphorin-7A, CDw108, JMH blood group antigen, John-Milton-Hargen human blood group Ag, Semaphorin-K1, Sema K1, Semaphorin-L, Sema L, CD108.

### Description

Source: Sf9, Insect cells.

Sterile filtered colorless solution.

SEMA7A (semaphorin-7A isoform 1), is a membrane-bound semaphorin which is linked with cell surfaces via a glycosylphosphatidylinositol (GPI) linkage. SEMA7A encourages formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK3 & MAPK1. SEMA7A takes a vital part in integrin-mediated signaling and functions in regulating cell migration as well as immune responses. In addition, SEMA7A promotes the production of proinflammatory cytokines by macrophages & monocytes.

SEMA7A produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 846 amino acids (45-648 a.a.) and having a molecular mass of 95.7kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). SEMA7A is expressed with an 242 amino acid hlgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** SEMA7A protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** ADPQGHLSRG PRIFAVWKGH VGQDRVDFGQ TEPHTVLFHE PGSSSVVWGG RGKVYLFDFP  
EGKNASVRTV NIGSTKGSCL DKRDCENYIT LLERRSEGLL ACGTNARHPS CWNLVNGTVV PLGEMRGYAP  
FSPDENSLVL FEGDEVYSTI RKQEYNGKIP RFRRIRGESE LYSDTVMQN PQFIKATIVH QDQAYDDKIY  
YFFREDNPKD NPEAPLNVS R VAQLCRGDQG GESSLSVSKW NTLKAMLVC SDAATNKNFN  
RLQDVFLLPD PSGQWRDTRV YGVFSNPWNY SAVCVYSLGD IDKVFRTSSL KGYHSSLPNP RPKKCLPDQQ  
PIPTETFQVA DRHPEVAQRV EPMGPKTPL FHSKYHYQKV AVHRMQASHG ETFHVLYLTT DRGTIHKVVE  
PGEQEHSFAF NIMEIQPFRR AAAIQTMSLD AERRKLYVSS QWEVSQVPLD LCEVYGGGCH GCLMSRDPYC  
GWDQGRCSI YSSERSVLQS INPAEPHKEC PNPKPKAPL QKVS LAPNSR YYLSCPMSR HATYSWRHKE  
NVEQSCEPGH QSPNCILFIE NLTAQQYGHY FCEAQEGSYF REAQHWQLLP EDGIMAEHLL GHACALALEP  
KSCDKHTTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNA  
KTKPREEQYNSTYRVVSVLT VLNQDQWLNGK EYKCKVSNKALPAPIEKTIS KAKGQPREPQ VYTLPPSRDE  
LTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCSSV  
MHEALHNHYTQKSLSLSPGKHHHHHH.