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# 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 hIgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

## Product Info

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| **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 :** | ADPQGHLRSG PRIFAVWKGH VGQDRVDFGQ TEPHTVLFHE PGSSSVWVGG RGKVYLFDFP EGKNASVRTV NIGSTKGSCL DKRDCENYIT LLERRSEGLL ACGTNARHPS CWNLVNGTVV PLGEMRGYAP FSPDENSLVL FEGDEVYSTI RKQEYNGKIP RFRRIRGESE LYTSDTVMQN PQFIKATIVH QDQAYDDKIY YFFREDNPDK NPEAPLNVSR VAQLCRGDQG GESSLSVSKW NTFLKAMLVC SDAATNKNFN RLQDVFLLPD PSGQWRDTRV YGVFSNPWNY SAVCVYSLGD IDKVFRTSSL KGYHSSLPNP RPGKCLPDQQ PIPTETFQVA DRHPEVAQRV EPMGPLKTPL FHSKYHYQKV AVHRMQASHG ETFHVLYLTT DRGTIHKVVE PGEQEHSFAF NIMEIQPFRR AAAIQTMSLD AERRKLYVSS QWEVSQVPLD LCEVYGGGCH GCLMSRDPYC GWDQGRCISI YSSERSVLQS INPAEPHKEC PNPKPDKAPL QKVSLAPNSR YYLSCPMESR HATYSWRHKE NVEQSCEPGH QSPNCILFIE NLTAQQYGHY FCEAQEGSYF REAQHWQLLP EDGIMAEHLL GHACALALEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH. |