Human SEMA4A Protein, His Tag Cat. No. PME101689



## **PRODUCT INFORMATION**

| Target                          | SEMA4A   |
|---------------------------------|--|
| Synonyms                        | RP35; SEMB; SEMAB; CORD10  |
| Description                     | Recombinant human SEMA4A Protein with C-<br>terminal 10×His tag  |
| Delivery                        | In Stock   |
| Uniprot ID                      | Q9H3S1   |
| Expression Host                 | HEK293   |
| Tag                             | C-10×His tag   |
| Molecular<br>Characterization   | SEMA4A(Gly33-His683) 10×His tag  |
| Molecular Weight                | The protein has a predicted molecular mass of<br>73.3 kDa after removal of the signal peptide. The<br>apparent molecular mass of SEMA4A-His is<br>approximately 70-100 kDa due to glycosylation.   |
| Purity                          | determined by SDS-PAGE and Coomassie blue<br>staining.   |
| Formulation &<br>Reconstitution | Lyophilized from sterile PBS, pH 7.4. Normally 5 %<br>– 8% trehalose is added as protectants before<br>lyophilization. Please see Certificate of Analysis<br>for specific instructions of reconstitution.  |
| Storage & Shipping              | Store at -20°C to -80°C for 12 months in<br>lyophilized form. After reconstitution, if not<br>intended for use within a month, aliquot and store<br>at -80°C (Avoid repeated freezing and thawing).<br>Lyophilized proteins are shipped at ambient<br>temperature.   |
| Background                      | This gene encodes a member of the semaphorin<br>family of soluble and transmembrane proteins.<br>Semaphorins are involved in numerous functions,<br>including axon guidance, morphogenesis,<br>carcinogenesis, and immunomodulation. The<br>encoded protein is a single-pass type I membrane<br>protein containing an immunoglobulin-like C2-<br>type domain, a PSI domain and a sema domain. It<br>inhibits axonal extension by providing local<br>signals to specify territories inaccessible for<br>growing axons. It is an activator of T-cell-<br>mediated immunity and suppresses vascular<br>endothelial growth factor (VEGF)-mediated<br>endothelial cell migration and proliferation in vitro<br>and angiogenesis in vivo. Mutations in this gene<br>are associated with retinal degenerative diseases<br>including retinitis pigmentosa type 35 (RP35) and<br>cone-rod dystrophy type 10 (CORD10). Multiple<br>alternatively spliced transcript variants encoding<br>different isoforms have been identified.[provided<br>by RefSeq, Sep 2010] |
| Usage                           | Research use only  |
| Conjugate                       | Unconjugated   |

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Figure 1. Human SEMA4A Protein, His Tag on SDS-PAGE under reducing condition.

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