



Recombinant Protein Technical Manual

**Recombinant Mouse Semaphorin-4C/SEMA4C
Protein (Fc Tag)**
RPES2831

Product Data:

Product SKU: RPES2831

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: Q64151

Protein Information:

Molecular Mass: 99.3 kDa

AP Molecular Mass: 120 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Semaphorin-4C;Semaphorin I;S4c; Semacl1; Semai;Sema I;Semaphorin-C-like 1;M-Sema F;Sema4c

Immunogen Information:

Sequence: Ala21-Gly664

Background:

Semaphorin-4C is a protein which belongs to the semaphorin family, contains 1 Ig-like C2-type domain, 1 PSI domain, 1 Sema domain. As cell surface receptor for PLXNB2, it plays an important role in cell-cell signaling. PLXNB2 binding promotes downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr248'. It required for normal brain development, axon guidance and cell migration, Probable signaling receptor which may play a role in myogenic differentiation through activation of the stress-activated MAPK cascade.