

Recombinant Protein Technical Manual

Recombinant Human Semaphorin 4G/SEMA4G Protein (His Tag) RPES4208

Product Data:

Product SKU: RPES4208 **Size:** 10μg

Species: Human Cells

Uniprot: Q9NTN9-2

Protein Information:

Molecular Mass: 74.0 kDa

AP Molecular Mass: 90-95 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ 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-4G;KIAA1619;SEMA4G

Immunogen Information:

Sequence: Val18-Leu680

Background:

Semaphorin-4G is belongs to the semaphorin family, contains 1 Ig-like C2-type domain, 1 PSI domain, 1 Sema domain. Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. This gene encodes a class 4 semaphorin.