



Recombinant Protein Technical Manual

Recombinant Human SEMA4B Protein (His Tag)

RPES4256

Product Data:

Product SKU: RPES4256

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q9NPR2

Protein Information:

Molecular Mass: 75.7 kDa

AP Molecular Mass: 86 kDa

Tag: C-6His

Bio-activity:

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

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

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

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

Application:

Synonyms: Semaphorin-4B; KIAA1745; SEMAC and SEMA4B

Immunogen Information:

Sequence: Leu44-Glu717

Background:

The class 4 semaphorins are integral membrane proteins that are widely expressed throughout the nervous system. SEMA4B is a single-pass type I membrane protein and contains one Ig-like C2-type (immunoglobulin-like) domain, one PSI domain and one Sema domain. Human SEMA4B is expressed in neurons. SEMA4B inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. SEMA4B negatively regulates basophil-mediated Th2 and humoral memory responses.