



Recombinant Protein Technical Manual

Recombinant Human NRCAM Protein (Fc Tag)

RPES0813

Product Data:

Product SKU: RPES0813

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q92823-3

Protein Information:

Molecular Mass: 91.2 kDa

AP Molecular Mass: 117 kDa

Tag: C-Fc

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

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

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, pH 7.4.

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

Application:

Synonyms: Neuronal cell adhesion molecule; Nr-CAM; Neuronal surface protein Bravo; hBravo; gCAM-related cell adhesion molecule; Ng-CAM-related; KIAA0343; gCAM-related cell adhesion molecule

Immunogen Information:

Sequence: Gln25-Asn600(Pro526Ala)

Background:

Neuronal cell adhesion molecule(NRCAM) is a single-pass type I membrane protein ,containing 5 fibronectin type-III domains and 6 Ig-like C2-type (immunoglobulin-like) domains. It belongs to the immunoglobulin superfamily. NrCAM is engaged in such biological processes as axonal fasciculation, cell-cell adhesion, central nervous system development, clustering of voltage-gated sodium channels, neuron migration, positive regulation of neuron differentiation, regulation of axon extension, and synaptogenesis. It also may play a role in the molecular assembly of the nodes of Ranvier. NrCAM effects are also linked with different recognition processes and signal transduction pathways regulating cell differentiation, proliferation, or migration.