Recombinant Protein Technical Manual

Recombinant Human NCAM1 Protein (His Tag)

RPES0202

Product Data:

Product SKU: RPES0202

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P13591-3

Protein Information:

Molecular Mass:	65.5 kDa
AP Molecular Mass:	9030 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:	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℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 20mM Tris, 150mM NaCl, pH8.0.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	CD56; NCAM; CD56 antigen; MSK39; N-CAM; NCAM; neural cell adhesion molecule 1; neural cell adhesion molecule; NCAM

Immunogen Information:

Sequence: Leu20-Pro603

Background:

Neural cell adhesion molecule 1 (NCAM) is a single-pass type I membrane protein, it belongs to a family of membrane-bound glycoproteins that are involved in Ca2+ independent cell matrix and homophilic or heterophilic cell-cell interactions. NCAM is synthesized as a 761 aa preproprecursor that contains a 19 aa signal sequence, a 722 aa GPI-linked mature region, and a 20 aa C-terminal prosegment. The molecule contains five C-2 type Ig-like domains and two fibronectin type-III domains. NCAM is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. Acting as a receptor for rabies virus, NCAM in the adult brain shows a decline of sialylation relative to earlier developmental periods.