

NRCAM Protein, Human (HEK293, Fc)

Cat. No.:	HY-P71002
Synonyms:	Neuronal cell adhesion molecule; Nr-CAM; Neuronal surface protein Bravo; hBravo; gCAM-related cell adhesion molecule; Ng-CAM-related; KIAA0343
Species:	Human
Source:	HEK293
Accession:	AAI15737.1 (Q25-N600)
Gene ID:	4897
Molecular Weight:	Approximately 114.0 kDa

PROPERTIES

AA Sequence	<pre> QMISALEVPL DPKLLEDLVQ PPTITQQSPK DYIIDPRENI VIQCEAKGKP PPSFSWTRNG THFDIDKDPL VTMKPGTGTL IINIMSEGKA ETYEGVYQCT ARNERGAAVS NNIVVRPSRS PLWTKEKLEP ITLQSGQSLV LPCRPPIGLP PPIIFWMDNS FQRLPQSERV SQGLNGDLYF SNVLPEDTRE DYICYARFNH TQTIQQKQPI SVKVISAKSS RERPPTFLTP EGNASNKEEL RGNVLSLECI A EGLPTPIIY WAKEDGMLPK NRTVYKNFEK TLQIIHVSEA DSGNYQCI AK NALGAIHHTI SVRVKAAPYW ITAPQNLVLS PGEDGTLICR ANGNPKPRIS WLTNGVPIEI APDDPSRKID GDTIIFSNVQ ERSSAVYQCN ASNEYGYLLA NAFVNVLAEP PRI LTPANTL YQVIANRPAL LDCAFFGSPL PTIEWFKGAK GSALHEDIYV LHENGTL EIP VAQKDSTGTY TCVARNKLG M AKNEVHLEIK DATWIVKQPE YAVVQRGSMV SFECKVKHDDH T L S L T V L W L K DNRELP S D E R F T V D K D H L V V ADV S D D D S G T Y T C V A N </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Neuronal cell adhesion molecule (NRCAM) is a member of the immunoglobulin superfamily and a cell adhesion protein with multiple immunoglobulin-like C2-type domains and fibronectin type-III domains. NRCAM is involved in neuron-neuron adhesion and promotes directional signaling during axonal cone growth as an ankyrin-binding protein. NRCAM plays a role in mediating cell-cell contacts between Schwann cells and axons; the formation and maintenance of the nodes of Ranvier on myelinated axons; and normal clustering of sodium channels at heminodes. Therefore, NRCAM is required for normal responses to cell-cell contacts in brain and in the peripheral nervous system while being crucial for the saltatory propagation of action potentials along myelinated axons. NRCAM is also expressed in non-neural tissues and may play a general role in cell-cell communication via signaling from its intracellular domain to the actin cytoskeleton during directional cell migration. Allelic variants of NRCAM have been associated with autism and addiction vulnerability^{[1][2][3]}.

Caution: Product has not been fully validated for medical applications. For research use only.

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