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	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 AEGLPTPIIY WAKEDGMLPK NRTVYKNFEK TLQIIHVSEA DSGNYQCIAK NALGAIHHTI SVRVKAAPYW ITAPQNLVLS PGEDGTLICR ANGNPKPRIS WLTNGVPIEI APDDPSRKID GDTIIFSNVQ ERSSAVYQCN ASNEYGYLLA NAFVNVLAEP PRILTPANTL YQVIANRPAL LDCAFFGSPL PTIEWFKGAK GSALHEDIYV LHENGTLEIP VAQKDSTGTY TCVARNKLGM AKNEVHLEIK DATWIVKQPE YAVVQRGSMV SFECKVKHDH TLSLTVLWLK DNRELPSDER FTVDKDHLVV ADVSDDDSGT YTCVAN
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. 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 a 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].

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