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NRCAM Blocking Peptide (N-Term)

Synthetic peptide
Catalog # BP21986a

Specification

NRCAM Blocking Peptide (N-Term) - Product Information

Primary Accession	Q92823
Other Accession	O810U4, P97686

NRCAM Blocking Peptide (N-Term) - Additional Information

Gene ID 4897

Other Names
Neuronal cell adhesion molecule, Nr-CAM, Neuronal surface protein Bravo, hBravo, NgCAM-related cell adhesion molecule, Ng-CAM-related, NRCAM, KIAA0343

Target/Specificity
The synthetic peptide sequence is selected from aa 50-62 of HUMAN NRCAM

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NRCAM Blocking Peptide (N-Term) - Protein Information

Name NRCAM

Synonyms KIAA0343

Function
Cell adhesion protein that is required for

NRCAM Blocking Peptide (N-Term) - Background

Cell adhesion, ankyrin-binding protein involved in neuron-neuron adhesion. May play a role in the molecular assembly of the nodes of Ranvier (By similarity).

NRCAM Blocking Peptide (N-Term) - References

Lane R.P.,et al.Genomics 35:456-465(1996).
Dry K.,et al.Gene 273:115-122(2001).
Nagase T.,et al.DNA Res. 4:141-150(1997).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Hillier L.W.,et al.Nature 424:157-164(2003).

normal responses to cell-cell contacts in brain and in the peripheral nervous system. Plays a role in neurite outgrowth in response to contactin binding. Plays a role in mediating cell-cell contacts between Schwann cells and axons. Plays a role in the formation and maintenance of the nodes of Ranvier on myelinated axons. Nodes of Ranvier contain clustered sodium channels that are crucial for the saltatory propagation of action potentials along myelinated axons. During development, nodes of Ranvier are formed by the fusion of two heminodes. Required for normal clustering of sodium channels at heminodes; not required for the formation of mature nodes with normal sodium channel clusters. Required, together with GLDN, for maintaining NFASC and sodium channel clusters at mature nodes of Ranvier.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q810U4}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q810U4} Cell projection, axon {ECO:0000250|UniProtKB:Q810U4}. Secreted {ECO:0000250|UniProtKB:Q810U4}. Note=Detected at nodes of Ranvier {ECO:0000250|UniProtKB:Q810U4}

Tissue Location
Detected in all the examined tissues. In the brain it was detected in the amygdala, caudate nucleus, corpus callosum, hippocampus, hypothalamus, substantia nigra, subthalamic nucleus and thalamus

NRCAM Blocking Peptide (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides