10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NRCAM Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21986a

Product Information

Application	WB, E
Primary Accession	Q92823
Other Accession	Q810U4, P97686
Reactivity	Human, Rat, Mouse
Predicted	Human, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54598
Calculated MW	143890

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	This NRCAM antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 30-62 amino acids of mouse NRCAM.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NRCAM Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NRCAM
Synonyms	KIAA0343
Function	Cell adhesion protein that is required for 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.

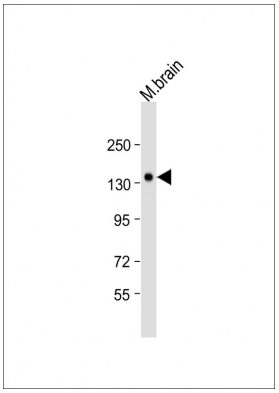
Background

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).

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).

Images



Anti-NRCAM Antibody (N-Term) at 1:2000 dilution + mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 144 kDa Blocking/Dilution buffer: 5% NFDM/TBST.