

Anti-NRCAM Monoclonal Antibody

Catalog # ABO14395

Product Information

Application	WB, IP
Primary Accession	Q92823
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid
Description	Anti-NRCAM Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human.

Additional Information

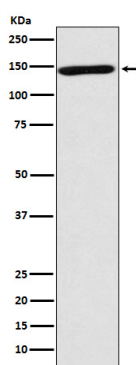
Gene ID	4897
Other Names	Neuronal cell adhesion molecule, Nr-CAM, Neuronal surface protein Bravo, hBravo, NgCAM-related cell adhesion molecule, Ng-CAM-related, NRCAM, KIAA0343
Calculated MW	143890
Application Details	WB 1:1000-1:5000 IP 1:20
Source	Eukaryota
Contents	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Clone Names Immunogen	Clone: ACOH-14 A synthesized peptide derived from human NRCAM Cell adhesion, ankyrin-binding protein involved in neuron-neuron adhesion. May play a role in the molecular assembly of the nodes of Ranvier.
Purification	Affinity-chromatography
Storage	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

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.

Images



Western blot analysis of NRCAM expression in human forebrain lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.