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Anti-NRCAM Monoclonal Antibody
Catalog # ABO14395

Specification

Anti-NRCAM Monoclonal Antibody - 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.

Anti-NRCAM Monoclonal Antibody - 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

Application Details
WB 1:1000-1:5000
IP 1:20

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.

Immunogen
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.**

Anti-NRCAM Monoclonal Antibody - 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}

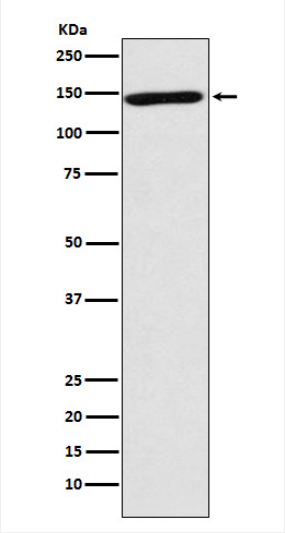
Tissue Location
Detected in all the examined tissues. In the brain it was detected in the amygdala, caudate nucleus, corpus callosum, hippocampus, hypothalamus, substantia nigra, subthalamic nucleus and thalamus.

Anti-NRCAM Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-NRCAM Monoclonal Antibody - Images



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Western blot analysis of NRCAM expression in human forebrain lysate.