



Rabbit Anti-NrCAM antibody

SL19345R

Product Name:	NrCAM
Chinese Name:	神经Cell adhesion moleculeNrCAM抗体
Alias:	Bravo; hBravo; Neuronal cell adhesion molecule; Neuronal surface protein Bravo; Ng CAM related; Ng-CAM-related; NgCAM related cell adhesion molecule; NgCAM-related cell adhesion molecule; Nr CAM; Nr-CAM; Nrcam; NRCAM HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	141kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NrCAM:26-120/1304<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Neuronal cell adhesion molecule (NrCAM) is a cell surface protein of the immunoglobulin (Ig) superfamily. NrCAM (also known as Bravo) contains six Ig domains, five fibronectin repeats, a transmembrane region and an intracellular domain. NrCAM is expressed in brain, spinal cord, peripheral nervous system and pancreas. In

the spinal cord, NrCAM acts as a ligand for axonin-1 to guide commissural axons across the floor plate. NrCAM also acts as a ligand for F3 to control actin-dependent growth cone motility. NrCAM interacts with neurofascin and may facilitate the clustering of the cytoskeletal protein ankyrin G and the voltage-dependent sodium channel proteins at the node of Ranvier. NrCAM expression may play a role in the severity of certain types of tumors. NrCAM is overexpressed in high-grade astrocytomas, gliomas and glioblastoma tumor tissues. In the pancreas, NrCAM expression is upregulated in intraductal hyperplasia. Antisense NrCAM reduces the tumorigenic properties of human glioblastoma cells in vitro and slowed tumor growth in vivo. The gene encoding human NrCAM maps to chromosome 7q31.1-q31.2.

Function:

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

Subunit:

Probable constituent of a neurofascin/NRCAM/ankyrin-G complex. Interacts with GLDN/gliomedin. Interacts with MYOC.

Subcellular Location:

Cell membrane.

Tissue Specificity:

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.

Similarity:

Belongs to the immunoglobulin superfamily.

L1/neurofascin/NgCAM family.

Contains 5 fibronectin type-III domains.

Contains 6 Ig-like C2-type (immunoglobulin-like) domains.

SWISS:

Q92823

Gene ID:

4897

Database links:

[Entrez Gene: 4897](#) Human

[Entrez Gene: 534500](#) Cow

[Entrez Gene: 319504](#) Mouse

[Entrez Gene: 497815](#) Rat

[Omim: 601581](#) Human

[SwissProt: Q92823](#) Human

[SwissProt: Q810U4](#) Mouse

[SwissProt: P97686](#) Rat

[Unigene: 21422](#) Human

[Unigene: 208439](#) Mouse

[Unigene: 10691](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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