

NrCAM Antibody
NrCAM Antibody, Clone S364-51
Catalog # ASM10294

Specification

NrCAM Antibody - Product Information

Application	WB, ICC
Primary Accession	Q810U4
Other Accession	NP_001139503.1
Host	Mouse
Isotype	IgG2a
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Description	Mouse Anti-Mouse NrCAM Monoclonal IgG2a

Target/Specificity

Detects ~160kDa.

Other Names

Neuronal cell adhesion molecule Antibody, Bravo Antibody, hBravo Antibody, KIAA0343 Antibody, MGC138845 Antibody, MGC138846 Antibody, Neuronal surface protein Bravo Antibody, Ng CAM related Antibody, Ng-CAM-related Antibody, NgCAM related cell adhesion molecule Antibody, NgCAM-related cell adhesion molecule Antibody, Nr CAM Antibody, Nr-CAM Antibody

Immunogen

Fusion protein amino acids 30-845 (extracellular domain) of mouse NrCAM. Rat: 96% identity (795/822 amino acids identical). Human: 91% identity (753/822 amino acids identical) ~50% identity with Neurofascin.

Purification

Protein G Purified

Storage

-20°C

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature

Blue Ice or 4°C

Certificate of Analysis

1 µg/ml of SMC-462 was sufficient for detection of NrCAM in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

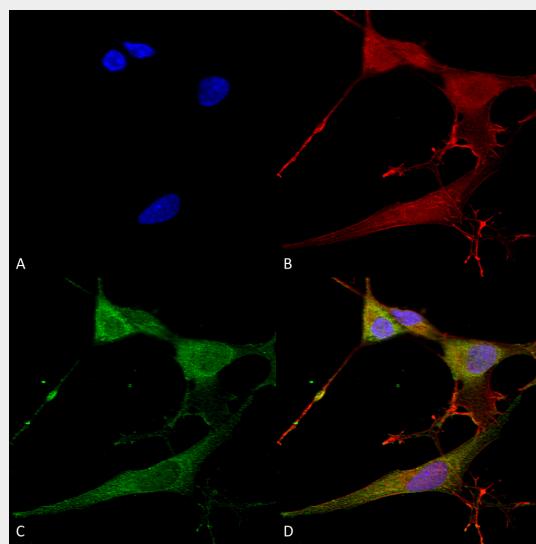
Cell Membrane

NrCAM 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 Cytometry](#)
- [Cell Culture](#)

NrCAM Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-NrCAM Monoclonal Antibody, Clone N364/51 (ASM10294). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-NrCAM Monoclonal Antibody (ASM10294) at 1:100 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) NrCAM Antibody (D) Composite.

NrCAM Antibody - Background

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 cystoskeletal 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.