



NrCAM Antibody

NrCAM Antibody, Clone S364-51 Catalog # ASM10294

Specification

NrCAM Antibody - Product Information

Application ICC/IF, WB Primary Accession 0810U4

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.

PurificationProtein G Purified

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Storage -20°C Storage Buffer

PBS pH 7.4, 50% glycerol, 0.1% sodium

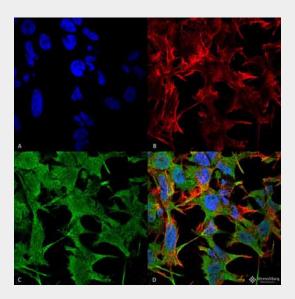
azide

Shipping Blue Ice or 4°C

Temperature

Certificate of Analysis

 $1 \, \mu g/ml$ of SMC-462 was sufficient for



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-NrCAM Monoclonal Antibody, Clone S364-51 (ASM10294). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-NrCAM Monoclonal Antibody (ASM10294) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) NrCAM Antibody (D) Composite.



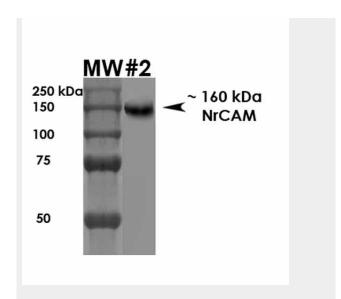
detection of NrCAM in 20 μg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cvtometv
- Cell Culture

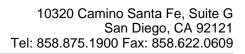


Western Blot analysis of Rat Brain Membrane showing detection of ~160 kDa NrCam protein using Mouse Anti-NrCam Monoclonal Antibody, Clone S364-51 (ASM10294). Load: 10 µg. Primary Antibody: Mouse Anti-NrCam Monoclonal Antibody (ASM10294) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~160 kDa.

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 $7 \\ q31.1 \\ - q31.2.$