

Product datasheet for **AM60049PU-N**

Nrcam (30-845, Extracell. Dom.) Mouse Monoclonal Antibody [Clone ID: S364-51]

Product data:

Product Type:	Primary Antibodies
Clone Name:	S364-51
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/1000; 1 µg/ml was sufficient for detection of NRCAM in 20 µg of rat brain lysate by colorimetric immunoblot using HRP conjugated secondary antibody. Immunocytochemistry.
Reactivity:	Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 30-845 (extracellular domain) of mouse NRCAM protein.
Specificity:	This antibody detects a 160 kDa protein. (~50% identity with Neurofascin)
Formulation:	PBS pH 7.4, 50% Glycerol, 0,09% Sodium azide State: Purified State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Protein G chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	neuronal cell adhesion molecule
Database Link:	Entrez Gene 319504 Mouse Q810U4



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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 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.

Synonyms:

Nr-CAM, Neuronal cell adhesion molecule, Bravo, KIAA0343