

## Neuronal Cell Adhesion Molecule (NRCAM) Monoclonal Antibody

### ORDERING INFORMATION

**Catalog no.:** 56581 (clone 343-26)

**Format:** 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

### BACKGROUND

The *NRCAM* gene encodes a neuronal cell adhesion molecule with multiple immunoglobulin-like C2-type domains and fibronectin type-III domains. This ankyrin-binding protein is involved in neuron-neuron adhesion and promotes directional signaling during axonal cone growth. This gene is also expressed in non-neural tissues and may play a general role in cell-cell communication via signaling from its intracellular domain to the actin cytoskeleton during directional cell migration. Allelic variants of this gene have been associated with autism and addiction vulnerability. Alternative splicing results in multiple transcript variants encoding different isoforms.

### SPECIFICATION SUMMARY

**Antigen:** Fusion protein corresponding to aa 30-845 (extracellular domain) of mouse NRCAM. This sequence is 96% identical in rat, 91% identical in human, and ~50% identical in Neurofascin.

**Accession nos:** NP\_001139503.1, Q810U4

**Gene ID:** 319504

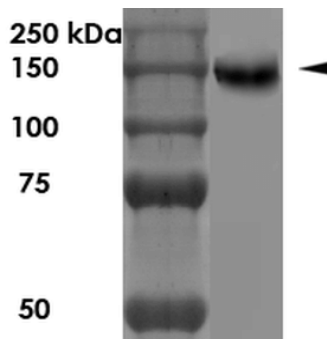
**Host Species:** Mouse

**Antibody Class:** IgG2a

**Specificity:** This antibody recognizes human, mouse, and rat NRCAM.

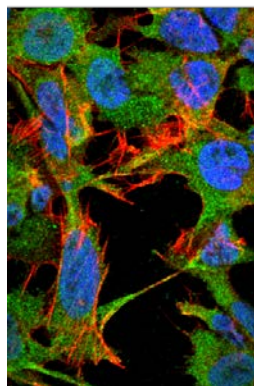
### APPLICATIONS

**Immunoblotting:** use at 1-5ug/ml. A band of ~160kDa is detected.



Detection of NRCAM in rat brain lysate with #56581 at 1ug/ml.

**Immunofluorescence:** use at 10ug/ml.



Detection of NRCAM in neuroblastoma cell line SK-N-BE with #56581 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) NRCAM stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

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### DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

### STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

*For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.*