BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NRCAM Antibody Picoband®

Catalog Number: A03746-1

About NRCAM

Enables protein binding activity involved in heterotypic cell-cell adhesion. Involved in cell-cell adhesion; nervous system development; and regulation of postsynapse organization. Acts upstream of or within several processes, including neuron development; neuronal action potential propagation; and regulation of neuron projection development. Located in axon; plasma membrane; and synapse. Is active in glutamatergic synapse and postsynaptic density membrane. Is expressed in several structures, including alimentary system; central nervous system; genitourinary system; integumental system; and sensory organ. Used to study autism spectrum disorder. Orthologous to human NRCAM (neuronal cell adhesion molecule).

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Overview

Product Name	Anti-NRCAM Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-NRCAM Antibody Picoband® catalog # A03746-1. Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q810U4

Technical Details

Immunogen	E.coli-derived human NRCAM recombinant protein (Position: R207-Q1025). Mouse NRCAM shares 91.7% and 97.1% amino acid (aa) sequence identity with human and rat NRCAM, respectively.

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Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Mouse ELISA, 0.1-0.5 ug/ml Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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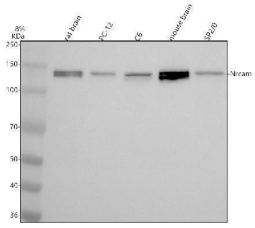
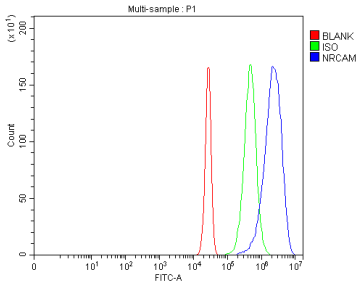
Anti-NRCAM Antibody Picoband® (A03746-1) Images



Western blot analysis of NRCAM using anti-NRCAM antibody (A03746-1). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: rat PC-12 whole cell lysates, Lane 3: mouse C6 whole cell lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse SP2/0 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NRCAM antigen affinity purified polyclonal antibody (A03746-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for NRCAM at approximately 136 kDa. The expected band size for NRCAM is at 144 kDa.



Flow Cytometry analysis of Neuro2a cells using anti-NRCAM antibody (A03746-1). Overlay histogram showing Neuro2a cells stained with A03746-1 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-NRCAM Antibody (A03746-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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