BOSTER BIOLOGICAL TECHNOLOGY
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Anti-NUMBL Antibody Picoband®

Catalog Number: A07925

About NUMBL

Numb-like protein is a protein that in humans is encoded by the NUMBL gene. NUMBL [numb (drosophila) homolog-like] is functionally related to NUMB, a protein that plays an essential role in the determination of cell fate for sensory organ and neural development. Polyglutamine repeats in the NUMBL gene have been associated with schizophrenia in two unrelated populations. Alternate names for NUMBL include NBL, CAG3A, CTG3a, NUMBR, TNRC23, and NUMBLIKE.

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Overview

Product Name	Anti-NUMBL Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NUMBL Antibody Picoband® catalog # A07925. Tested in ELISA, WB, Flow Cytometry applications. This antibody reacts with Human, 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	Q9Y6R0

Technical Details

Immunogen	E.coli-derived human NUMBL recombinant protein (Position: R336-A537). Human NUMBL shares 91.1% and 89.4% amino acid (aa) sequence identity with mouse and rat NUMBL, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

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	blot.
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human 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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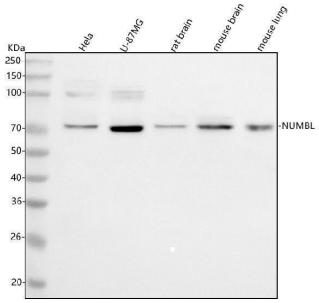
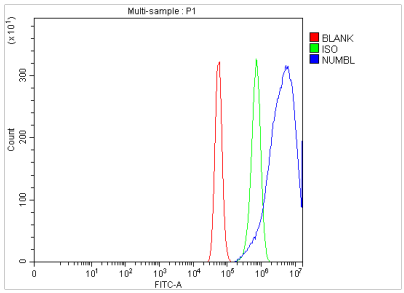
Anti-NUMBL Antibody Picoband® (A07925) Images



Western blot analysis of NUMBL using anti-NUMBL antibody (A07925). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human U-87 MG whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse lung tissue 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-NUMBL antigen affinity purified polyclonal antibody (Catalog # A07925) 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 Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NUMBL at approximately 72 kDa. The expected band size for NUMBL is at 65-70 kDa.



Flow Cytometry analysis of U87 cells using anti-NUMBL antibody (A07925). Overlay histogram showing U87 cells stained with A07925 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-NUMBL Antibody (A07925, 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 (Red line) was also used as a control.

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