

Anti-Nucleobindin 2/NUCB2 Antibody Picoband®

Catalog Number: PB9876

About Nucleobindin 2

Nucleobindin-2 is a calcium-binding EF-hand protein that in humans is encoded by the NUCB2 gene. By exon trapping and sequence analysis, the NUCB2 sequence has been identified on chromosome 11p15-p14. This gene encodes a protein with a suggested role in calcium level maintenance, eating regulation in the hypothalamus, and release of tumor necrosis factor from vascular endothelial cells.

Overview

Product Name	Anti-Nucleobindin 2/NUCB2 Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Nucleobindin 2/NUCB2 Antibody Picoband® catalog # PB9876. Tested in ELISA, IHC, WB 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, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P81117

Technical Details

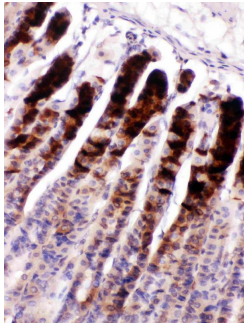
Immunogen	E. coli-derived mouse Nucleobindin 2 recombinant protein (Position: V25-L106). Mouse Nucleobindin 2 shares 85.4% and 97.6% amino acid (aa) sequence identity with human and rat Nucleobindin 2, respectively.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.

Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse, Rat ELISA, 0.1-0.5ug/ml, - Western blot, 0.1-0.5ug/ml, Mouse

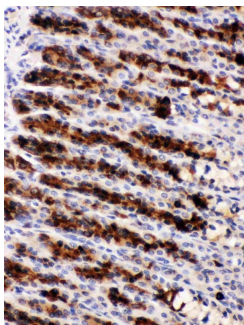
Anti-Nucleobindin 2/NUCB2 Antibody Picoband® (PB9876) Images

130KD—
100KD—
70KD—
55KD—
35KD—
25KD—
15KD—

Western blot analysis of Nucleobindin 2 using anti-Nucleobindin 2 antibody (PB9876). 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: HEPA 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-Nucleobindin 2 antigen affinity purified polyclonal antibody (Catalog # PB9876) 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 Nucleobindin 2 at approximately 55 kDa. The expected band size for Nucleobindin 2 is at 50 kDa.



IHC analysis of Nucleobindin 2 using anti-Nucleobindin 2 antibody (PB9876). Nucleobindin 2 was detected in a paraffin-embedded section of mouse gaster tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Nucleobindin 2 Antibody (PB9876) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of Nucleobindin 2 using anti-Nucleobindin 2 antibody (PB9876). Nucleobindin 2 was detected in a paraffin-embedded section of rat gaster tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 ug/ml rabbit anti-Nucleobindin 2 Antibody (PB9876) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

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Anti-Nucleobindin 2/NUCB2 Antibody

For Research Use Only. Not for use in diagnostic procedures.