

Anti-CD73/Nt5e Antibody Picoband®

Catalog Number: A02120-2

About Nt5e

The protein encoded by this gene is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. The encoded protein is used as a determinant of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries. Two transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-CD73/Nt5e Antibody Picoband®
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-CD73/Nt5e Antibody Picoband® catalog # A02120-2. Tested in ELISA, Flow Cytometry, 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, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg Na ₃ N.
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	Q61503

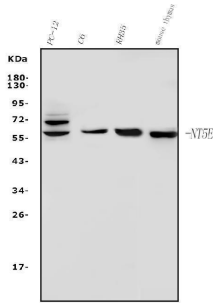
Technical Details

Immunogen	E.coli-derived mouse CD73/Nt5e recombinant protein (Position: S337-S551).
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.

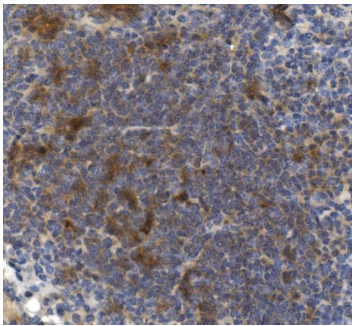
Suggested Dilutions

Western blot, 0.25-0.5ug/ml, Mouse, Rat
Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Mouse
Flow Cytometry (Fixed), 1-3ug/1x10⁶ cells, Mouse
ELISA, 0.1-0.5ug/ml, -

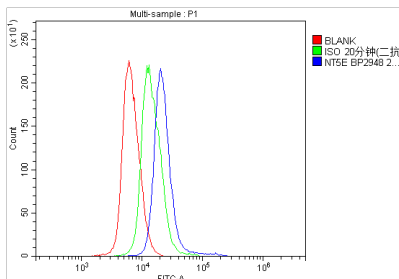
Anti-CD73/Nt5e Antibody Picoband® (A02120-2) Images



Western blot analysis of CD73/Nt5e using anti-CD73/Nt5e antibody (A02120-2). 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 50ug of sample under reducing conditions. Lane 1: rat PC-12 whole cell lysates, Lane 2: rat C6 whole cell lysates, Lane 3: rat RH35 whole cell lysates, Lane 4: mouse thymus tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-CD73/Nt5e antigen affinity purified polyclonal antibody (Catalog # A02120-2) 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 CD73/Nt5e at approximately 63KD. The expected band size for CD73/Nt5e is at 63KD.

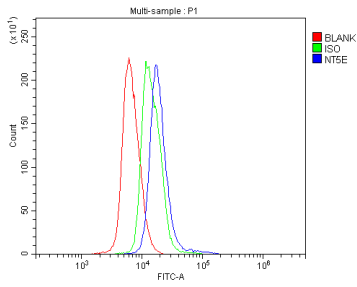


IHC analysis of CD73/Nt5e using anti-CD73/Nt5e antibody (A02120-2). CD73/Nt5e was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CD73/Nt5e Antibody (A02120-2) 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.



Flow Cytometry analysis of mouse spleen tissues using anti-CD73/Nt5e antibody (A02120-2). Overlay histogram showing mouse spleen tissue stained with A02120-2 (Blue line). To facilitate intracellular staining, tissues were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The tissues were blocked with 10% normal goat serum. And then incubated with rabbit anti-CD73/Nt5e Antibody (A02120-2, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Flow Cytometry analysis of mouse spleen tissue using anti-



CD73/Nt5e antibody (A02120-2). Overlay histogram showing mouse spleen tissue stained with A02120-2 (Blue line). The tissue was blocked with 10% normal goat serum. And then incubated with rabbit anti-CD73/Nt5e Antibody (A02120-2, 1ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

1 Publications Citing This Product

1. PubMed ID: 10.1371/journal.pone.0097123, Administration of BMSCs with Muscone in Rats with Gentamicin-Induced AKI Improves Their Therapeutic Efficacy

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Anti-CD73/Nt5e Antibody

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