BOSTER BIOLOGICAL TECHNOLOGY
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Anti-His Tag Antibody Picoband® (monoclonal, 19b10)

Catalog Number: M30975-1

About GNG4

Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4 is a protein that in humans is encoded by the GNG4 gene. This gene encodes the gamma subunit of the heterotrimeric G-proteins that are comprised of alpha, beta and gamma subunits. Upon activation by G protein-coupled receptors, the beta-gamma heterodimer dissociates from the alpha subunit to activate downstream signaling events. Alternate splicing results in multiple transcript variants.

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Overview

Product Name	Anti-His Tag Antibody Picoband® (monoclonal, 19b10)
Reactive Species	All species
Description	Boster Bio Anti-His Tag Antibody Picoband® (monoclonal, 19b10) catalog # M30975-1. Tested in WB application. This antibody reacts with all species. 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	WB
Clonality	Monoclonal 19b10
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Mouse
Uniprot ID	P50150

Technical Details

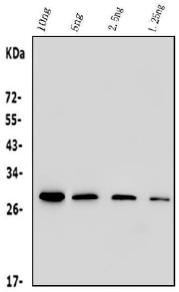
Immunogen	A synthetic peptide corresponding to a sequence of His Tag.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.

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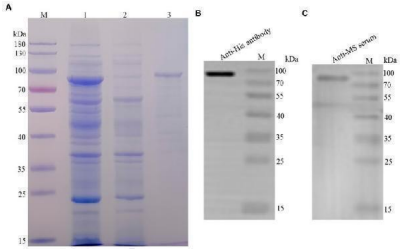
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml

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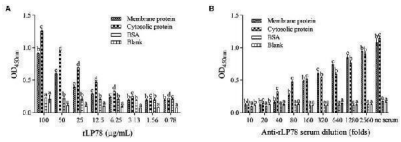
Anti-His Tag Antibody Picoband® (monoclonal, 19b10) (M30975-1) Images



Western blot analysis of His Tag using anti-His Tag antibody (M30975-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. Lane 1: recombinant mouse His Tag protein 10ng, Lane 1: recombinant mouse His Tag protein 5ng, Lane 1: recombinant mouse His Tag protein 2.5ng, Lane 1: recombinant mouse His Tag protein 1.25ng. 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 mouse anti-His Tag antigen affinity purified monoclonal antibody (Catalog # M30975-1) 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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system.



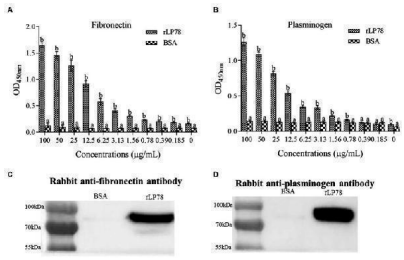
Purification and identification of rLP78. (A) SDS-PAGE analysis of the purification of rLP78 by Ni + column. Lane M, protein molecular weight marker; Lane 1, the supernatant of the whole bacterial lysate; Lane 2, elution with 50 mM of imidazole; Lane 3, elution with 500 mM of imidazole. (B) Western blotting analysis of the purified rLP78 using anti-His-tag monoclonal antibody. (C) Western blotting analysis of the purified rLP78 using mouse anti- M. synoviae polyclonal antibodies.Index in PubMed under a CC BY license. PMID: 38264482



Activity of rLP78 to adhere to membrane proteins of DF-1 cells. Microtiter ELISA plates were coated with the extracted membrane protein, cytosolic protein or BSA. (A) Different concentrations of rLP78 were added to individual wells. Bound proteins were detected using a mouse anti-His-tag monoclonal antibody. (B) Adherence of rLP78 (100 ug/mL) to membrane proteins of DF-1 cells was inhibited by mouse anti-LP78 serum and further detected using goat anti-mouse IgG. Bars represent the mean ± standard deviation of the OD 450nm values of samples in triplicate. The differences were compared between each group. The same letter indicates no obvious difference ($p > 0.05$); different letters indicate a significant difference ($p < 0.05$).Index in PubMed under a CC BY license. PMID: 38264482

Binding ability of rLP78 to human fibronectin (hFn) and human plasminogen (hPlg). The binding ability of rLP78 to hFn (A) or hPlg (B) was identified by ELISA. The plates were coated with 5 ug/mL of hFn or hPlg. Different concentrations of rLP78 or BSA were added to individual wells. Bound proteins were detected using a mouse anti-His-tag

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monoclonal antibody. Bars represent the mean ± standard deviation of the OD values of samples in triplicate. The differences were compared between each group. The same letter indicates no obvious difference ($p > 0.05$); different letters indicate a significant difference ($p < 0.01$). Binding ability of rLP78 to hFn (C) or hPlg (D) was confirmed by western blotting. Bound hFn was determined by rabbit anti-hFn antibody or rabbit anti-plasminogen antibody. BSA was chosen as negative control.Index in PubMed under a CC BY license. PMID: 38264482

4 Publications Citing This Product

1. PubMed ID: 10.1007/s11033-008-9341-1, Molecular structure of the largemouth bass (Micropterus salmoides) Myf5 gene and its effect on skeletal muscle growth

2. PubMed ID: 30637608, Li L,Yu X,Zhang H,Cheng H,Hou L,Zheng Q,Hou J.In vitro antiviral activity of Griffithsin against porcine epidemic diarrhea virus.Virus Genes.2019 Apr;55(2):174-181.doi:10.1007/s11262-019-01633-7.Epub 2019 Jan 14.PMID:30637608;PMCID:PMC7089098.

3. PubMed ID: 34082810, Wang J,Li Y,Pan L,Li J,Yu Y,Liu B,Zubair M,Wei Y,Pillay B,Olaniran AO,Chiliza TE,Shao G,Feng Z,Xiong Q.Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) moonlights as an adhesin in Mycoplasma hyorhinis adhesion to epithelial cells as well as a plasminogen receptor mediating extracellular matrix degradation.Vet Res.2021 Jun 3;52(1):80.doi:10.1186/s13567-021-00952-8. PMID:34082810;PMCID:PMC8173509.

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