

Anti-CD63 Antibody Picoband®

Catalog Number: PB9250

About CD63

CD63 antigen is a protein that in humans is encoded by the CD63 gene. The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. It is mapped to 12q13.2. CD63 is mainly associated with membranes of intracellular vesicles, although cell surface expression may be induced. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker. Deficiency of this protein is associated with Hermansky-Pudlak syndrome. Also this gene has been associated with tumor progression.

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Overview

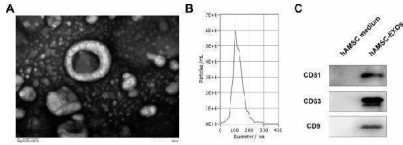
Product Name	Anti-CD63 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-CD63 Antibody Picoband® catalog # PB9250. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na ₂ HPO ₄ .
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	P08962

Technical Details

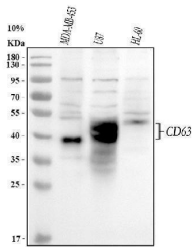
Immunogen	E.coli-derived human CD63 recombinant protein (Position: E97-M238). Human CD63 shares 74% and 73% amino acid (aa) sequence identity with mouse and rat CD63, respectively.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent 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, 0.1-0.5ug/ml, Human Immunohistochemistry (Paraffin-embedded Section), 2-5ug/ml, Human

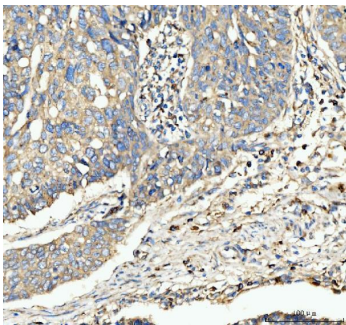
Anti-CD63 Antibody Picoband® (PB9250) Images



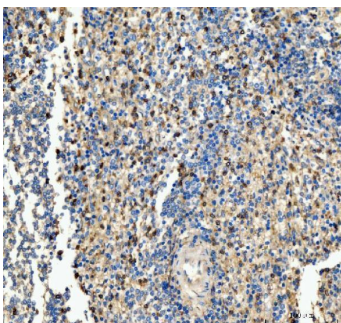
Identification of hAMSC-Exos (A) The morphology of hAMSC-Exos was observed using transmission electron microscopy. Scale bar = 100 nm. (B) The hAMSC-Exos particle size distribution was detected using NTA. (C) Western blot was used to detect the expression of hAMSC-Exos surface proteins CD9, CD63 and CD81 Index in PubMed under a CC BY license. PMID: 40329179



Western blot analysis of CD63 using anti-CD63 antibody (PB9250). 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 MDA-MB-453 whole cell lysates, Lane 2: human U87 whole cell lysates, Lane 3: human HL-60 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-CD63 antigen affinity purified polyclonal antibody (Catalog # PB9250) 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 CD63 at approximately 30-60 kDa. The expected band size for CD63 is at 26 kDa.



IHC analysis of CD63 using anti-CD63 antibody (PB9250). CD63 was detected in a paraffin-embedded section of human bladder urothelial carcinoma 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 2 ug/ml rabbit anti-CD63 Antibody (PB9250) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of CD63 using anti-CD63 antibody (PB9250). CD63 was detected in a paraffin-embedded section of human spleen 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 2 ug/ml rabbit anti-CD63 Antibody (PB9250) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C.

The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

5 Publications Citing This Product

1. PubMed ID: 10.1155/2020/8183713, ASK1 Enhances Angiotensin II-Induced Liver Fibrosis In Vitro by Mediating Endoplasmic Reticulum Stress-Dependent Exosomes
2. PubMed ID: 31507456, Zhu X,Wang S,Tarique I,An T,Yang H,Bai X,Wang X,Chen Q,Yang P.Cellular Evidence and Source of Exosomes in the Biliary System of the Chinese Soft-Shelled Turtle, Pelodiscus sinensis.Front Physiol.2019 Aug 27;10:1097.doi:10.3389/fphys.2019.01097.PMID:31507456;PMCID: PMC 6718451.
3. PubMed ID: 33893878, Huang C,Pan L,Shen X,Tian H,Guo L,Zhang Z,Liu X.Hsp16.3 of mycobacterium tuberculosis in exosomes as a biomarker of tuberculosis.Eur J Clin Microbiol Infect Dis.2021 Apr 24.doi:10.1007/s10096-021-04246-x.Epub ahead of print.PMID:33893878.

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Anti-CD63 Antibody

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