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antibody and ELISA experts

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Anti-MMD Antibody Picoband®

Catalog Number: A06022

About MMD

This protein is expressed by in vitro differentiated macrophages but not freshly isolated monocytes. Although sequence analysis identifies seven potential transmembrane domains, this protein has little homology to G-protein receptors and it has not been positively identified as a receptor. A suggested alternative function is that of an ion channel protein in maturing macrophages.

Overview

Product Name	Anti-MMD Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MMD Antibody Picoband® catalog # A06022. Tested in WB, FCM, ELISA 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	Q15546

Technical Details

Immunogen	E.coli-derived human MMD recombinant protein (Position: R20-A182). Human MMD shares 100% amino acid (aa) sequence identity with both mouse and rat MMD.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
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, 0.1-0.25 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human

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	ELISA, 0.1-0.5 ug/ml, -

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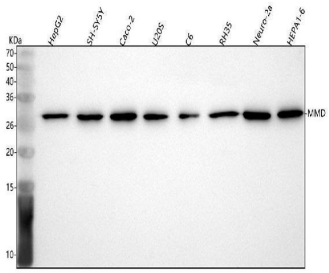
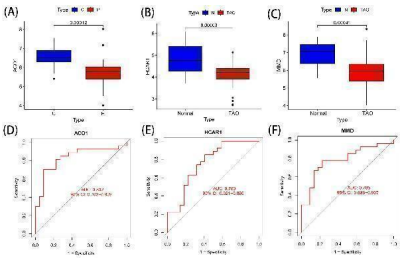
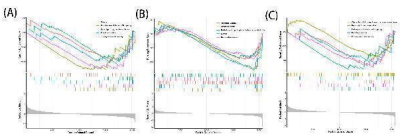
Anti-MMD Antibody Picoband® (A06022) Images



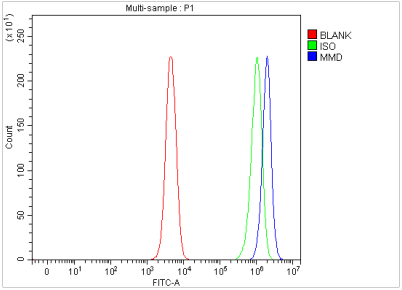
Western blot analysis of MMD using anti-MMD antibody (A06022). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human U20S whole cell lysates, Lane 5: rat C6 whole cell lysates, Lane 6: rat RH35 whole cell lysates, Lane 7: mouse Neuro-2a whole cell lysates, Lane 8: mouse HEPA1-6 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-MMD antigen affinity purified polyclonal antibody (Catalog # A06022) at 0.25 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 MMD at approximately 28 kDa. The expected band size for MMD is at 28 kDa.



Differential expression and ROC curve of OFGs of ferroptosis. (A) The expression difference of ACO1 between TAO and Normal. (B) The expression difference of HCRA1 between TAO and Normal. (C) The expression difference of MMD between TAO and Normal. (D) The predictive value of ACO1 in TAO from the ROC curve. (E) The predictive value of HCRA1 in TAO from the ROC curve. (F) The predictive value of MMD in TAO from the ROC curve. Each panel displayed the AUC under the curve and 95% CI. ROC, ROC curve; AUC, area under the curve; CI, confidence interval.Index in PubMed under a CC BY license. PMID: 39735537



GSEA analysis of OFGs for ferroptosis in TAO. (A) GSEA analysis of ACO1. (B) GSEA analysis of HCRA1. (C) GSEA analysis of MMD.Index in PubMed under a CC BY license. PMID: 39735537



Flow Cytometry analysis of SH-SY5Y cells using anti-MMD antibody (A06022). Overlay histogram showing SH-SY5Y cells stained with A06022 (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-MMD Antibody (A06022, 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

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ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Anti-MMD Antibody

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