BOSTER
antibody and ELISA experts

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Anti-MCPIP1/ZC3H12A Antibody Picoband®

Catalog Number: A01688-2

About ZC3H12A

Zinc finger CCCH-type containing 12A is a protein in humans that is encoded by the ZC3H12A gene. ZC3H12A is an MCP1 (CCL2; MIM 158105)-induced protein that acts as a transcriptional activator and causes cell death of cardiomyocytes, possibly via induction of genes associated with apoptosis.

Overview

Product Name	Anti-MCPIP1/ZC3H12A Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Rabbit IgG polyclonal antibody for MCPIP1/ZC3H12A detection. Tested with WB, IHC, ICC/IF, FCM, ELISA in 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, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg 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	Rabbit
Uniprot ID	Q5D1E8

Technical Details

Immunogen	E.coli-derived human MCPIP1/ZC3H12A recombinant protein (Position: Q36-T98).
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) and ICC.
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.

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Suggested Dilutions	Western blot, 0.25-0.5ug/ml, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 5-10ug/ml, Human, Rat Immunocytochemistry/Immunofluorescence, 5ug/ml, Human Flow Cytometry (Fixed), 1-3ug/1x10^6 cells, Human ELISA, 0.1-0.5ug/ml, -

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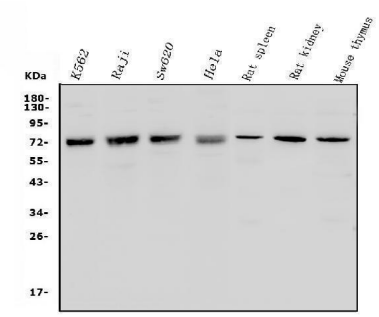
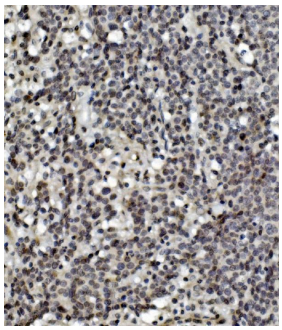
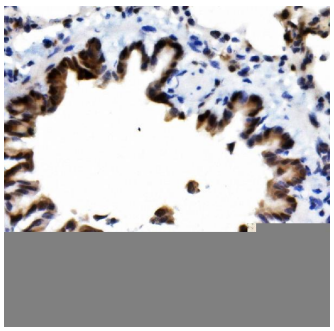
Anti-MCPIP1/ZC3H12A Antibody Picoband® (A01688-2) Images



Western blot analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2). 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: human K562 whole cell lysates, Lane 2: human Raji whole cell lysates, Lane 3: human Sw620 whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 4: rat spleen tissue lysates, Lane 5: rat kidney tissue lysates, Lane 6: 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-MCPIP1/ZC3H12A antigen affinity purified polyclonal antibody (Catalog # A01688-2) 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 MCPIP1/ZC3H12A at approximately 73KD. The expected band size for MCPIP1/ZC3H12A is at 66KD.



IHC analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2). MCPIP1/ZC3H12A was detected in paraffin-embedded section of human lung cancer 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 5ug/ml rabbit anti-MCPIP1/ZC3H12A Antibody (A01688-2) 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 Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2). MCPIP1/ZC3H12A was detected in paraffin-embedded section of rat lung 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 5ug/ml rabbit anti-MCPIP1/ZC3H12A Antibody (A01688-2) 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 Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

IF analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2). MCPIP1/ZC3H12A was detected in

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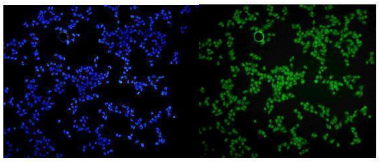
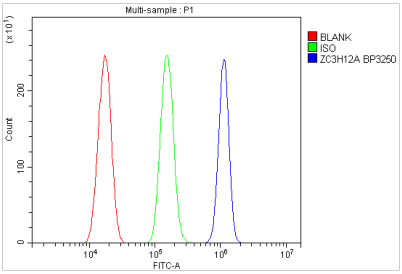


immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-MCPIP1/ZC3H12A Antibody (A01688-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of U87 cells using anti-MCPIP1/ZC3H12A antibody (A01688-2). Overlay histogram showing U87 cells stained with A01688-2 (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-MCPIP1/ZC3H12A Antibody (A01688-2, 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.

Anti-MCPIP1/ZC3H12A Antibody

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