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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, Direct ELISA in Human;Mouse;Rat.
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).
Predicted Reactive Species	Human
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: 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, 1-3ug/1x10^6 cells, Human Direct ELISA, 0.1-0.5ug/ml, Human

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

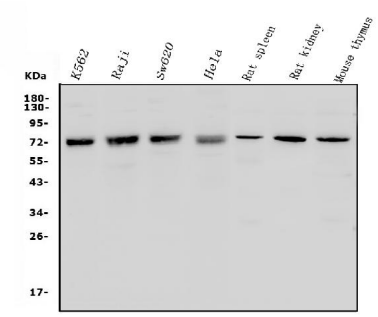

Figure 1. Western blot analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 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.

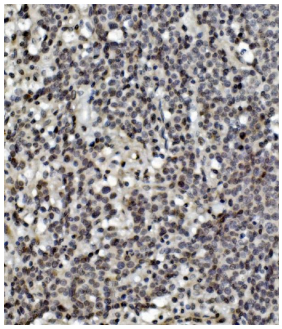

Figure 2. IHC analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2).
MCPIP1/ZC3H12A was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked 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.

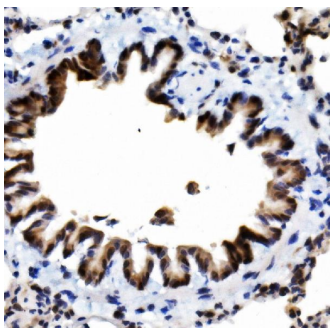

Figure 3. IHC analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2).
MCPIP1/ZC3H12A was detected in paraffin-embedded section of rat lung tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% 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-

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Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.

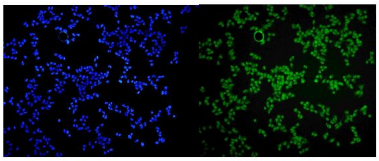

Figure 4. IF analysis of MCPIP1/ZC3H12A using anti-MCPIP1/ZC3H12A antibody (A01688-2).
MCPIP1/ZC3H12A was detected in immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat 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.

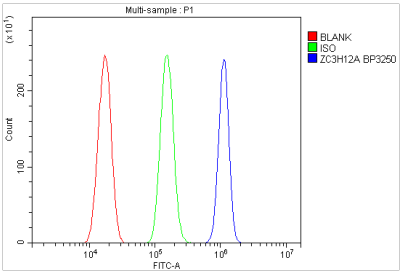

Figure 5. Flow Cytometry analysis of U87 cells using anti-MCPIP1/ZC3H12A antibody (A01688-2).
Overlay histogram showing U87 cells stained with A01688-2 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MCPIP1/ZC3H12A Antibody (A01688-2, 1ug/1x10^6 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x10^6 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10^6) used under the same conditions. Unlabelled sample (Red line) was also used as a control.