BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IRBIT/AHCYL1 Antibody Picoband® (monoclonal, 2E7D9)

Catalog Number: M08908

About AHCYL1

Putative adenosylhomocysteinase 2 is an enzyme that in humans is encoded by the AHCYL1 gene. The protein encoded by this gene interacts with inositol 1,4,5-trisphosphate receptor, type 1 and may be involved in the conversion of S-adenosyl-L-homocysteine to L-homocysteine and adenosine. Several transcript variants encoding two different isoforms have been found for this gene.

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Overview

Product Name	Anti-IRBIT/AHCYL1 Antibody Picoband® (monoclonal, 2E7D9)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-IRBIT/AHCYL1 Antibody Picoband® (monoclonal, 2E7D9) catalog # M08908. Tested in Flow Cytometry, WB 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	Flow Cytometry, WB
Clonality	Monoclonal 2E7D9
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 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	Mouse
Uniprot ID	O43865

Technical Details

Immunogen	E.coli-derived human IRBIT/AHCYL1 recombinant protein (Position: E14-K57).
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	IgG1
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, 0.25-0.5 µg/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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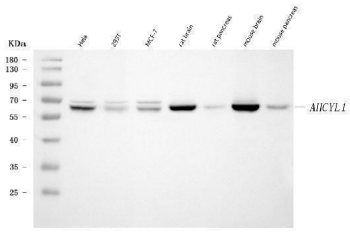
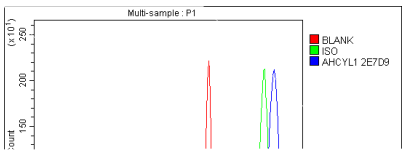
Anti-IRBIT/AHCYL1 Antibody Picoband® (monoclonal, 2E7D9) (M08908) Images



Western blot analysis of IRBIT/AHCYL1 using anti-IRBIT/AHCYL1 antibody (M08908). 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 Hela whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat pancreas tissue lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse pancreas tissue 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 mouse anti-IRBIT/AHCYL1 antigen affinity purified monoclonal antibody (Catalog # M08908) 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. A specific band was detected for IRBIT/AHCYL1 at approximately 59 kDa. The expected band size for IRBIT/AHCYL1 is at 59 kDa.



Flow Cytometry analysis of K562 cells using anti-IRBIT/AHCYL1 antibody (M08908). Overlay histogram showing K562 cells stained with M08908 (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 mouse anti-IRBIT/AHCYL1 Antibody (M08908, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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