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Anti-MCUR1 Antibody Picoband™

Catalog Number: A08547-1

About MCUR1

MCUR1 is an inner mitochondrial membrane protein that has been shown to function as a component of the mitochondrial Ca (2+) uniporter, in the assembly of mitochondrial respiratory complex IV, and in mitochondrial permeability transition (MPT). The MCUR1 gene is mapped to chromosome 6p23 based on an alignment of the MCUR1 sequence with the genomic sequence.

Overview

Product Name	Anti-MCUR1 Antibody Picoband™
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MCUR1 Antibody Picoband™ catalog # A08547-1. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg NaN_3.
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	Q96AQ8

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human MCUR1, which shares 79.4% and 82.3% amino acid (aa) sequence identity with mouse and rat MCUR1, respectively.
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this

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	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, 0.1-0.5ug/ml Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml

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Anti-MCUR1 Antibody Picoband™ (A08547-1) Images

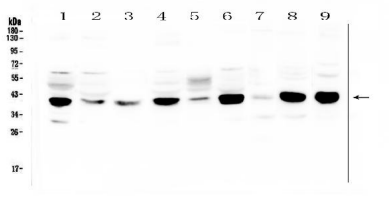

Figure 1. Western blot analysis of MCUR1 using anti-MCUR1 antibody (A08547-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates.
Lane 2: human MDA-MB-231 whole cell lysates,
Lane 3: human HL-60 whole cell lysates,
Lane 4: human MDA-MB-453 whole cell lysates,
Lane 5: human A431 whole cell lysates,
Lane 6: human Caco-2 whole cell lysates,
Lane 7: rat spleen tissue lysates,
Lane 8: mouse lung tissue lysates,
Lane 9: mouse Ana-1 whole cell 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-MCUR1 antigen affinity purified polyclonal antibody (Catalog # A08547-1) 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 1:10000 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 MCUR1 at approximately 40KD. The expected band size for MCUR1 is at 40KD.

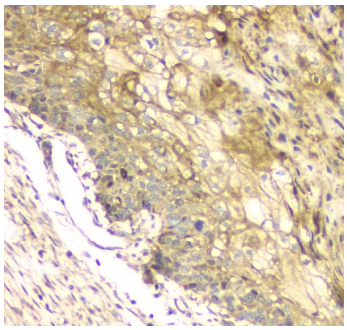

Figure 2. IHC analysis of MCUR1 using anti-MCUR1 antibody (A08547-1).
MCUR1 was detected in paraffin-embedded section of human oesophagus squama cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MCUR1 Antibody (A08547-1) 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 MCUR1 using anti-MCUR1 antibody (A08547-1).
MCUR1 was detected in paraffin-embedded section of human ovary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MCUR1 Antibody (A08547-1) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary

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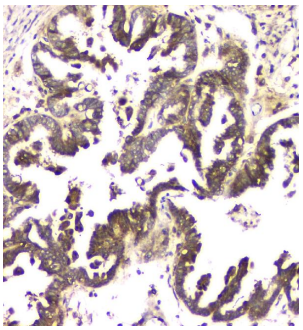

antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

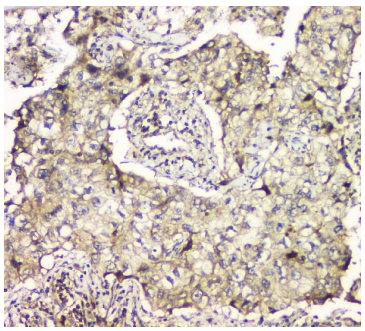

Figure 4. IHC analysis of MCUR1 using anti-MCUR1 antibody (A08547-1).
MCUR1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MCUR1 Antibody (A08547-1) 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.

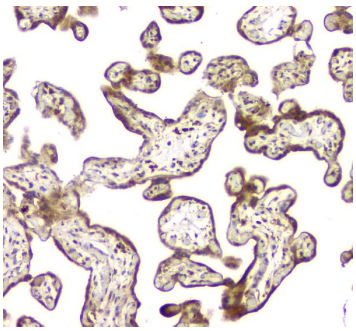

Figure 5. IHC analysis of MCUR1 using anti-MCUR1 antibody (A08547-1).
MCUR1 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MCUR1 Antibody (A08547-1) 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.

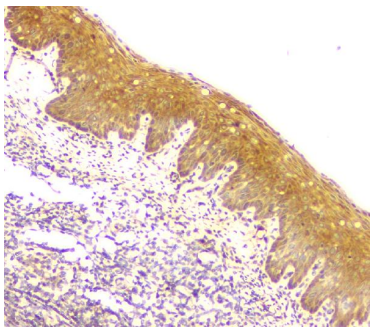

Figure 6. IHC analysis of MCUR1 using anti-MCUR1 antibody (A08547-1).
MCUR1 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-MCUR1 Antibody (A08547-1) 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.

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