Product datasheet

Anti-Aconitase 2/ACO2 Antibody (Clone#4C12D1)

Catalog Number: ***M03096-3***

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.
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Basic Information

Product Name	Anti-Aconitase 2/ACO2 Antibody (Clone#4C12D1)
Gene Name	ACO2
Source	Mouse
Clonality	Monoclonal
Isotype	IgG1
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Aconitase 2, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	85 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Aconitase 2, mitochondrial is a protein that in humans is encoded by the ACO2 gene. The protein encoded by this gene belongs to the aconitase/IPM isomerase family. It is an enzyme that catalyzes the interconversion of citrate to isocitrate via cis-aconitate in the second step of the TCA cycle. This protein is encoded in the nucleus and functions in the mitochondrion. It was found to be one of the mitochondrial matrix proteins that are preferentially degraded by the serine protease 15(PRSS15), also known as Lon protease, after oxidative modification.

Selected Validation Data

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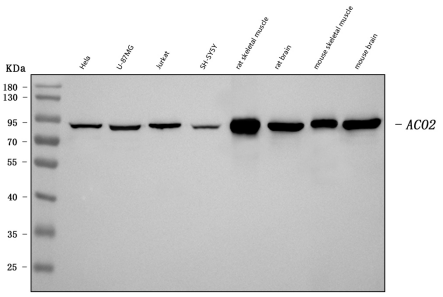
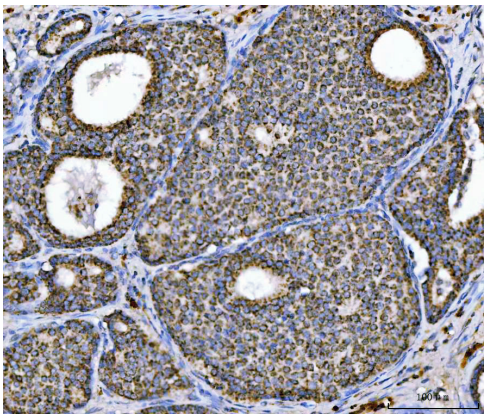


Western blot analysis of Aconitase 2/ACO2 using anti-Aconitase 2/ACO2 antibody (M03096-3). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Hela whole cell lysates,
Lane 2: U-87MG whole cell lysates,
Lane 3: Jurkat whole cell lysates,
Lane 4: SH-SY5Y whole cell lysates,
Lane 5: rat skeletal muscle tissue lysates,
Lane 6: rat brain tissue lysates,
Lane 7: mouse skeletal muscle tissue lysates,
Lane 8: mouse brain tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-Aconitase 2/ACO2 antigen affinity purified monoclonal antibody (M03096-3) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Aconitase 2/ACO2 at approximately 85 kDa. The expected band size for Aconitase 2/ACO2 is at 85 kDa.



IHC analysis of Aconitase 2/ACO2 using anti-Aconitase 2/ACO2 antibody (M03096-3).
Aconitase 2/ACO2 was detected in a paraffin-embedded section of human breast cancer tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-Aconitase 2/ACO2 Antibody (M03096-3) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.