Product datasheet

Anti-MT-CO2 Antibody

Catalog Number: *A03631-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-MT-CO2 Antibody
Gene Name	MT-CO2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human MT-CO2 recombinant protein (Position: M1-S205).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	21 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (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

Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. Subunit 2 transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1.

Reference

Anti-MT-CO2 Antibody被引用在4文献中。

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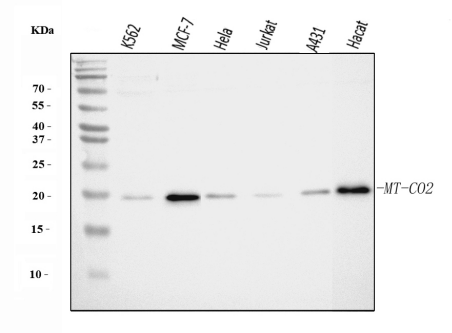
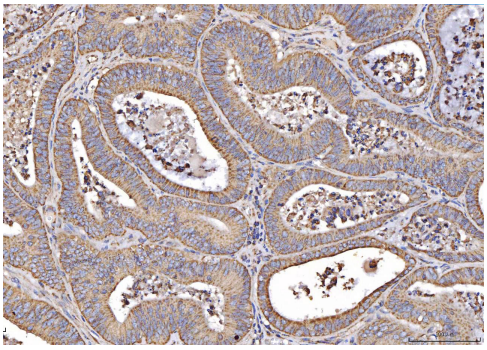
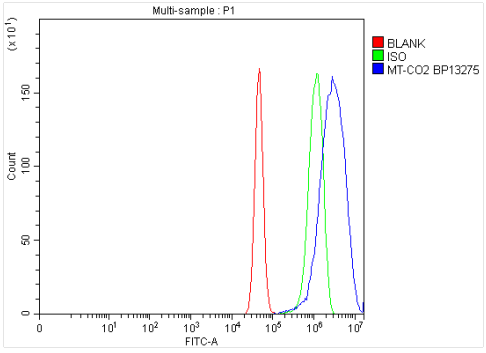
Selected Validation Data



Western blot analysis of MT-CO2 using anti-MT-CO2 antibody (A03631-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: K562 whole cell lysates,
Lane 2: MCF-7 whole cell lysates,
Lane 3: HELA whole cell lysates,
Lane 4: Jurkat whole cell lysates,
Lane 5: A431 whole cell lysates,
Lane 6: Hacat whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MT-CO2 antigen affinity purified polyclonal antibody (A03631-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MT-CO2 at approximately 21 kDa. The expected band size for MT-CO2 is at 26 kDa.



IHC analysis of MT-CO2 using anti-MT-CO2 antibody (A03631-1).
MT-CO2 was detected in a paraffin-embedded section of human colorectal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-MT-CO2 Antibody (A03631-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of U87 cells using anti-MT-CO2 antibody (A03631-1).
Overlay histogram showing U87 cells stained with A03631-1 (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-MT-CO2 Antibody (A03631-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green

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line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.