Product datasheet

Anti-Cytochrome c/CYCS Antibody

Catalog Number: *BA0781*

BOSTER
antibody and ELISA experts
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Building C21, 3rd and 4th floors, Optics Valley Biomedical Accelerator,
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Basic Information

Product Name	Anti-Cytochrome c/CYCS Antibody
Gene Name	CYCS
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
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 Cytochrome C, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	14 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (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. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

Cytochrome C is located in the mitochondria of all aerobic cells and is involved in the electron transport system. Human cytochrome c has 104 amino acid residues and a molecular weight of 11,458 and is mapped to 7p15.2. Cytochrome c released from mitochondria has been proposed to be an essential component of an apoptotic pathway responsive to DNA damage and other forms of cell stress. And it has a role in different apoptotic signaling cascades.

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Reference

Anti-Cytochrome c/CYCS Antibody 被引用在23文献中。

Selected Validation Data

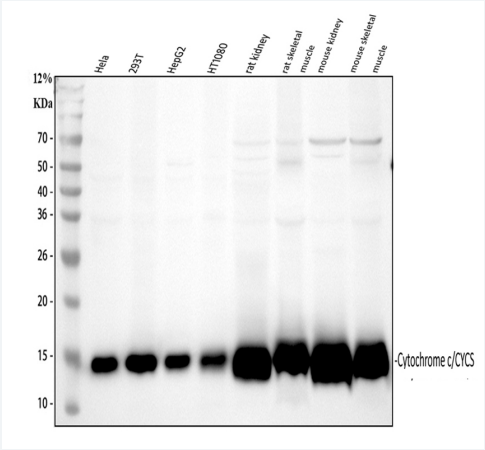

Figure 1. Western blot analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (BA0781). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human HT1080 whole cell lysates,
Lane 5: rat kidney tissue lysates,
Lane 6: rat skeletal muscle tissue lysates,
Lane 7: mouse kidney tissue lysates,
Lane 8: mouse skeletal muscle tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cytochrome c/CYCS antigen affinity purified polyclonal antibody (BA0781) 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 Cytochrome c/CYCS at approximately 14 kDa. The expected band size for Cytochrome c/CYCS is at 12 kDa.

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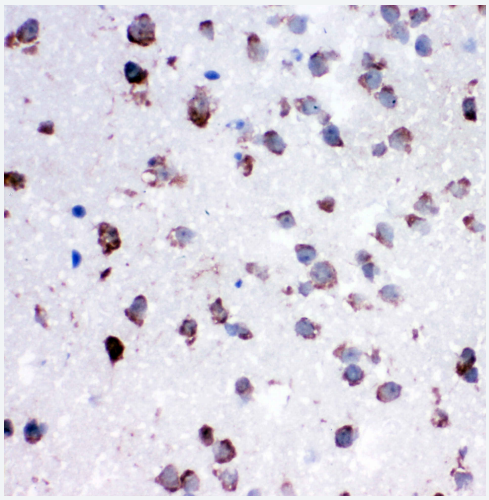

Figure 2. IHC analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (BA0781) .
Cytochrome c/CYCS was detected in a paraffin-embedded section of rat lung tissue. The tissue section was incubated with rabbit anti-Cytochrome c/CYCS Antibody (BA0781) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1022) as the chromogen.

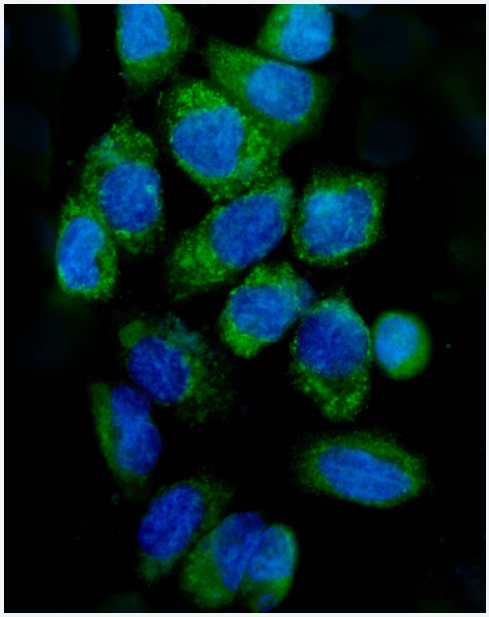

Figure 6. IF analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (BA0781).
Cytochrome c/CYCS was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-Cytochrome c/CYCS Antibody (BA0781) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

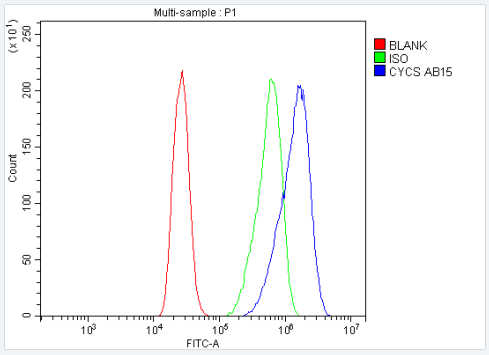

Figure 7. Flow Cytometry analysis of Caco-2 cells using anti-Cytochrome c/CYCS antibody (BA0781).
Overlay histogram showing Caco-2cells stained with BA0781 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cytochrome c/CYCS Antibody (BA0781) 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 line) was rabbit IgG at 1:100 dilution used under the same conditions.

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Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.