Product datasheet

Anti-Cytochrome c/CYCS Antibody

Catalog Number: *PB9334*

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, IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Cytochrome C recombinant protein (Position: G2-E105). Human Cytochrome C shares 91% amino acid (aa) sequence identity with both mouse and rat Cytochrome C.
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 Immunofluorescence (IF): 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. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

CYCS is also known as CYC, HCS or THC4. This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.

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Reference

Anti-Cytochrome c/CYCS Antibody 被引用在46文献中。

Selected Validation Data

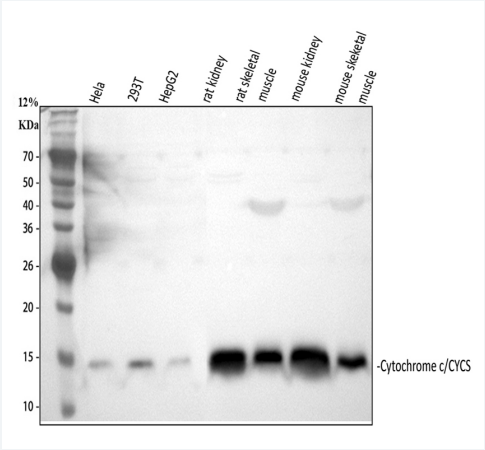

Figure 1. Western blot analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (PB9334). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: rat kidney tissue lysates,
Lane 5: rat skeletal muscle tissue lysates,
Lane 6: mouse kidney tissue lysates,
Lane 7: 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 (PB9334) 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.

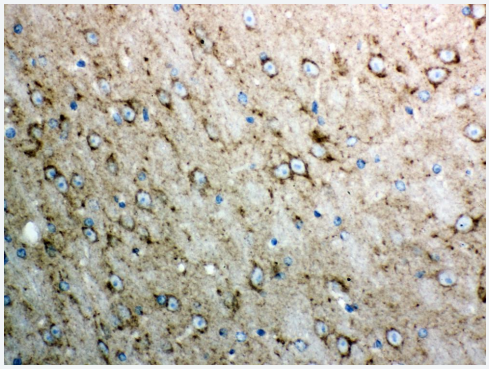

Figure 2. IHC analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (PB9334).
Cytochrome c/CYCS was detected in a paraffin-embedded section of mouse brain tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Cytochrome c/CYCS Antibody (PB9334) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1022) as the chromogen.

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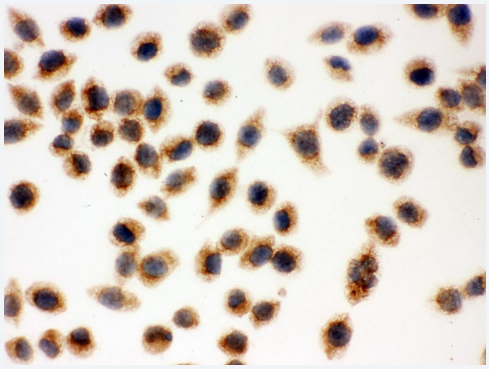

Figure 5. ICC analysis of Cytochrome c/CYCS using anti-Cytochrome c/CYCS antibody (PB9334).
Cytochrome c/CYCS was detected in an immunocytochemical section of SMMC-7721 cells. The section was incubated with rabbit anti-Cytochrome c/CYCS Antibody (PB9334) at a dilution of 1:100. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB (Catalog # AR1022) as the chromogen.

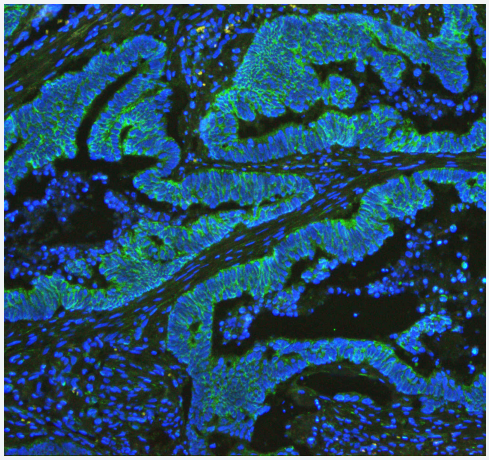

Figure 6. IF analysis of Cytochrome C using anti- Cytochrome C antibody (PB9334)
Cytochrome C was detected in paraffin-embedded section of human intestinal cancer tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/mL rabbit anti- Cytochrome C Antibody (PB9334) overnight at 4°C. DyLight488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.