

Anti-Cytochrome C Antibody

R1510-41



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 12kDa

Description: Cytochrome c is a well characterized mobile electron transport protein that is essential to energy conversion in all aerobic organisms. In mammalian cells, this highly conserved protein is normally localized to the mitochondrial intermembrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is translocated from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c and to induce cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic cascade, whereby Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleavage of caspase-3.

Immunogen: Synthetic peptide within Human Cytochrome C aa 1-50 / 105.

Positive control: HeLa cell lysate, L-929 cell lysate, C6 cell lysate, human liver tissue lysate, mouse liver tissue lysate, rat liver tissue lysate, human spleen tissue, human kidney tissue, human liver tissue, mouse liver tissue, mouse spleen tissue, mouse heart tissue, mouse kidney tissue.

Subcellular location: Mitochondrion intermembrane space

Database links: SwissProt: P99999 Human | P62897 Mouse | P62898 Rat

Recommended Dilutions:

WB	1:1,000-1:5,000
IHC-P	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

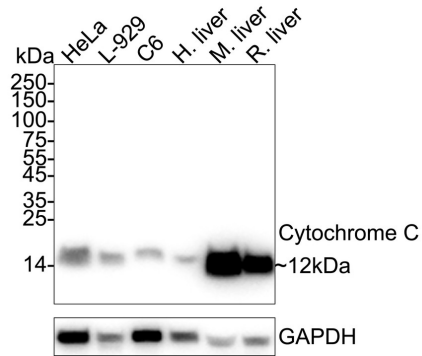


Fig1: Western blot analysis of Cytochrome C on different lysates with Rabbit anti-Cytochrome C antibody (R1510-41) at 1/1,000 dilution.

Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: L-929 cell lysate (20 µg/Lane)
 Lane 3: C6 cell lysate (20 µg/Lane)
 Lane 4: Human liver tissue lysate (40 µg/Lane)
 Lane 5: Mouse liver tissue lysate (40 µg/Lane)
 Lane 6: Rat liver tissue lysate (40 µg/Lane)

Predicted band size: 12 kDa

Observed band size: 12 kDa

Exposure time: 10 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1510-41) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

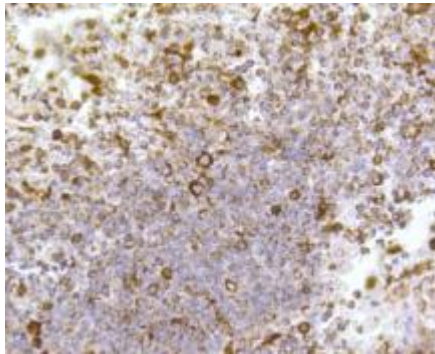


Fig2: Immunohistochemical analysis of paraffin- embedded human spleen tissue using anti-Cytochrome C rabbit polyclonal antibody.

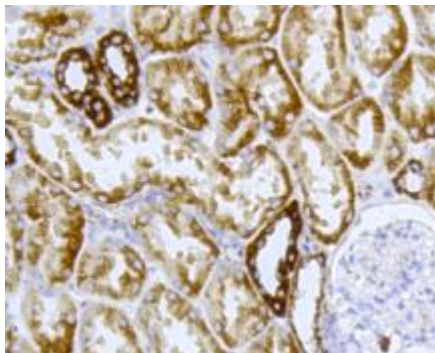


Fig3: Immunohistochemical analysis of paraffin- embedded human kidney tissue using anti-Cytochrome C rabbit polyclonal antibody.

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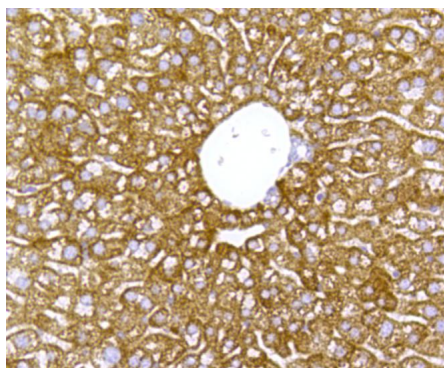


Fig4: Immunohistochemical analysis of paraffin- embedded mouse liver tissue using anti-Cytochrome C rabbit polyclonal antibody.

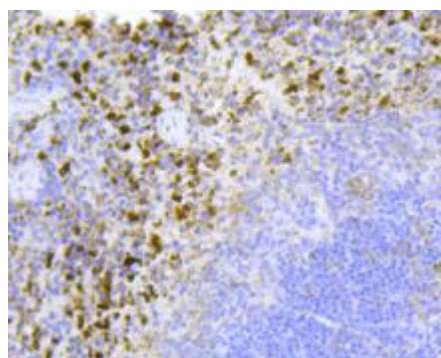


Fig5: Immunohistochemical analysis of paraffin- embedded mouse spleen tissue using anti-Cytochrome C rabbit polyclonal antibody.

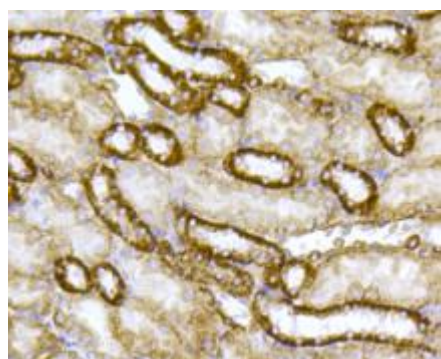


Fig6: Immunohistochemical analysis of paraffin- embedded mouse kidney tissue using anti-Cytochrome C rabbit polyclonal antibody.

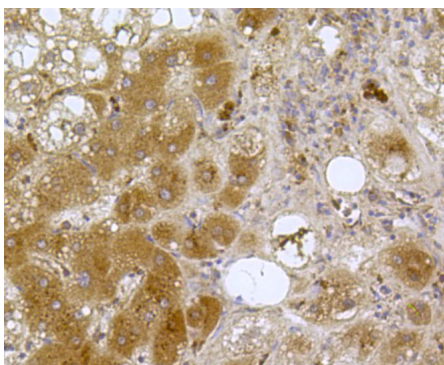


Fig7: Immunohistochemical analysis of paraffin- embedded human liver tissue using anti-Cytochrome C rabbit polyclonal antibody.

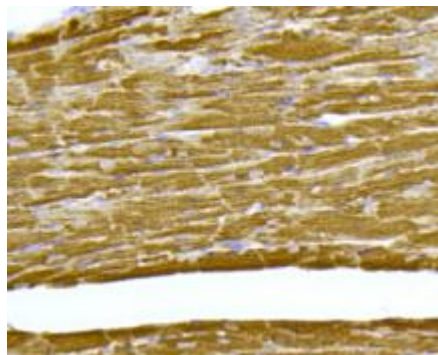


Fig8: Immunohistochemical analysis of paraffin- embedded mouse heart tissue using anti-Cytochrome C rabbit polyclonal antibody.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Liu, J. et al. 2015. Tumor-targeting novel manganese complex induces ROS-mediated apoptotic and autophagic cancer cell death. International journal of molecular medicine. 35: 607-16.
2. Anuka, E. et al. 2013. Infarct-induced steroidogenic acute regulatory protein: a survival role in cardiac fibroblasts. Molecular endocrinology (Baltimore, Md.). 27: 1502-17.

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