

Anti-Cytochrome C Antibody
Catalog # ABO10575**Specification**

Anti-Cytochrome C Antibody - Product Information

Application	WB, IHC-P, IHC-F, ICC
Primary Accession	P99999
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Cytochrome c(CYCS) detection. Tested with WB, IHC-P, IHC-F, ICC in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Cytochrome C Antibody - Additional Information

Gene ID 54205

Other Names

Cytochrome c, CYCS, CYC

Calculated MW

11749 MW KDa

Application Details

Immunocytochemistry , 0.5-1 µg/ml, Human, -
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml, Human, Rat, Mouse
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Mitochondrion intermembrane space. Loosely associated with the inner membrane.

Protein Name

Cytochrome c

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Cytochrome C(91-105 aa ERADLIAYLK^KATNE), identical to the related mouse and rat sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the cytochrome c family.

Anti-Cytochrome C Antibody - Protein Information

Name CYCS

Synonyms CYC

Function

Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain.

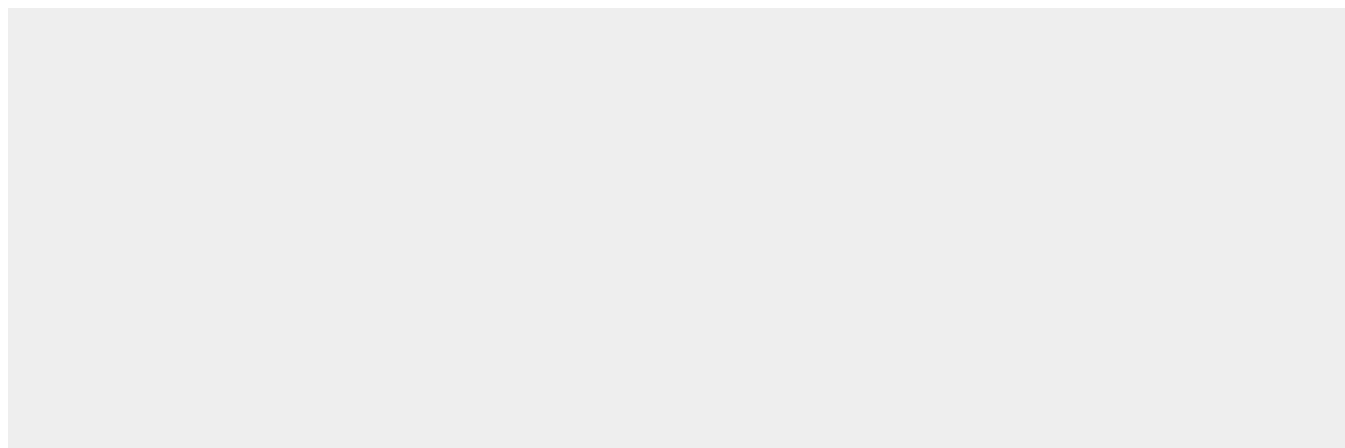
Cellular Location

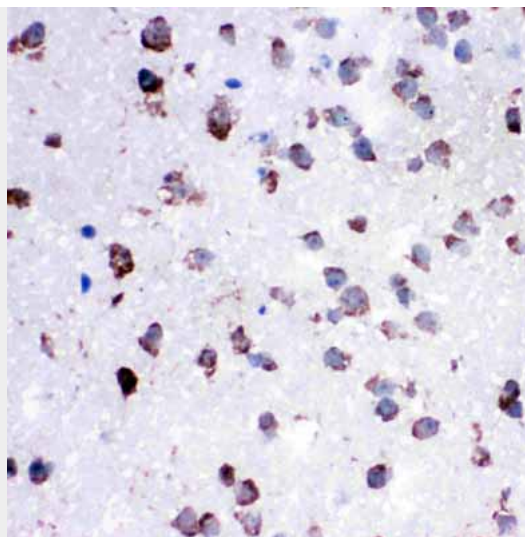
Mitochondrion intermembrane space. Note=Loosely associated with the inner membrane

Anti-Cytochrome C Antibody - Protocols

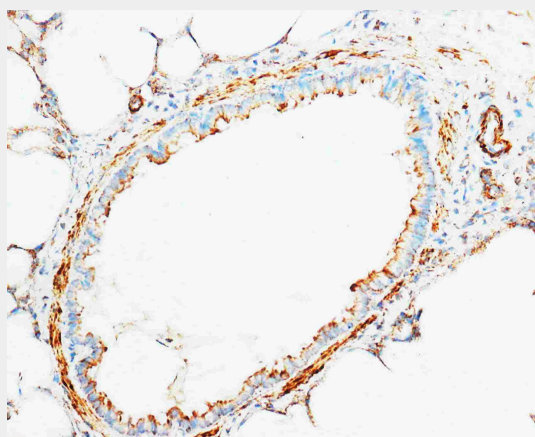
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

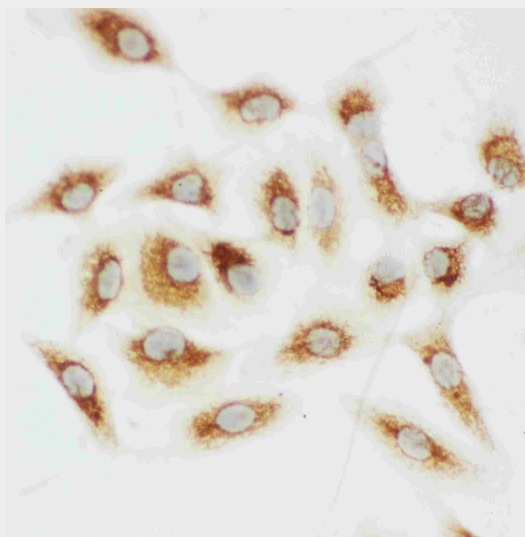
Anti-Cytochrome C Antibody - Images



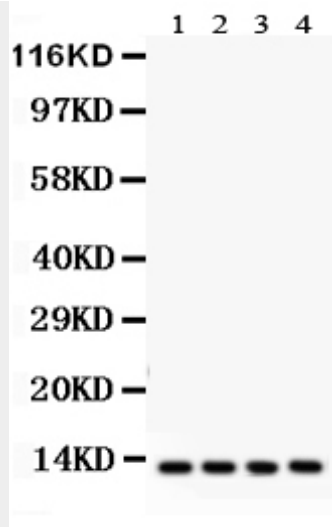
Anti-Cytochrome C antibody, ABO10575, IHC(P)IHC(P): Rat Lung Tissue



Anti-Cytochrome C antibody, ABO10575, IHC(F)IHC(F): Rat Brain Tissue



Anti-Cytochrome C antibody, ABO10575, ICCICC: A549 Cell



Anti-Cytochrome C antibody, ABO10575, Western blotting All lanes: Anti Cytochrome C (ABO10575) at 0.5ug/ml
Lane 1: Rat Liver Tissue Lysate at 50ug
Lane 2: HELA Whole Cell Lysate at 40ug
Lane 3: MCF-7 Whole Cell Lysate at 40ug
Lane 4: HEPA Whole Cell Lysate at 40ug
Predicted bind size: 12KD
Observed bind size: 12KD

Anti-Cytochrome C Antibody - Background

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.