

Datasheet for ABIN6940324

Recombinant anti-Cytochrome C antibody (AA 1-80)[Go to Product page](#)

4 Images

Overview

Quantity:	100 µg
Target:	Cytochrome C (CYCS)
Binding Specificity:	AA 1-80
Reactivity:	Human, Rat, Mouse, Horse, Pigeon, Dog, Drosophila melanogaster, Frog
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Cytochrome C antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c
Clone:	RCYCS-1010
Isotype:	IgG1 kappa
Specificity:	It recognizes an epitope within amino acids 93-104 of pigeon Cytochrome C, 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 inter-membrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is trans-located from the mitochondrial membrane to the cytosol, where it is required for

Product Details

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. This MAb recognizes total cytochrome C which includes both apocytochrome (i.e. cytochrome in the cytosol without heme attached) and holocytochrome (i.e cytochrome in the mitochondria with heme attached).

Purification: Purified by Protein A/G

Target Details

Target: Cytochrome C (CYCS)

Alternative Name: CYCS ([CYCS Products](#))

Molecular Weight: 15kDa

Gene ID: 54205

UniProt: [P99999](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Application Notes: Positive Control: K-562, HL-60, Jurkat, NIH3T3 or PC-3 cells. Liver or Cardiac muscle.
Known Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

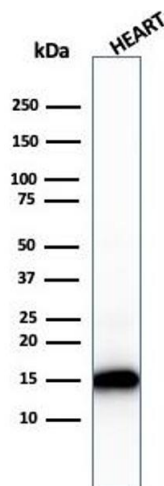
should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

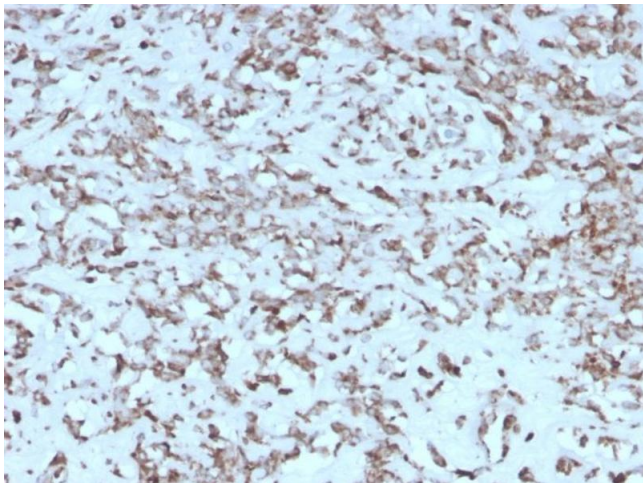
Expiry Date: 24 months

Images



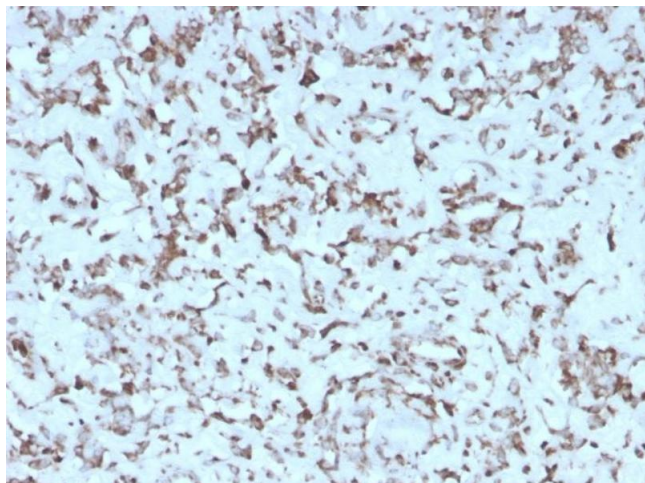
Western Blotting

Image 1. Western Blot Analysis of human heart tissue lysate using Cytochrome C Recombinant Mouse Monoclonal Antibody (rCYCS/1010).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome C Mouse Monoclonal Antibody (rCYCS/1010).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome C Mouse Monoclonal Antibody (rCYCS/1010).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940324.