Datasheet for ABIN6940318

anti-Cytochrome C antibody

3 Images

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Overview

Quantity:	100 µg
Target:	Cytochrome C (CYCS)
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cytochrome C antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	Rat full-length cytochrome c protein
Clone:	6H2-B4
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Cytochrome C (CYCS)
Alternative Name:	CYCS (CYCS Products)
Background:	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 inter-membrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During

Target Details

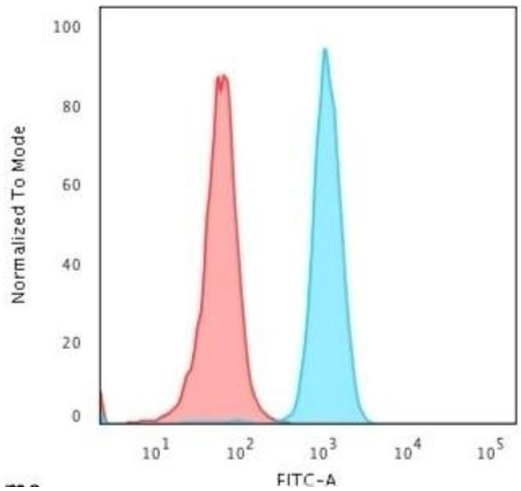
	apoptosis, cytochrome c is trans-located from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been 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.
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: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

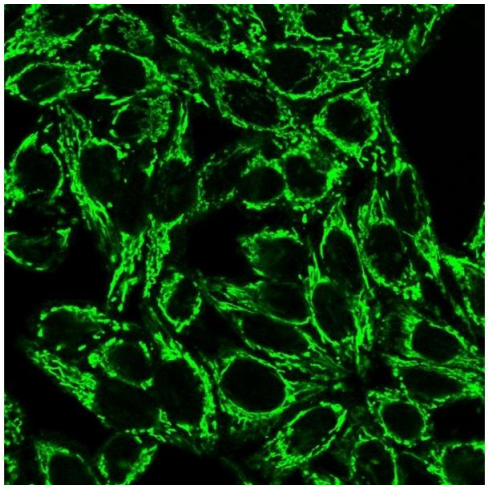
Handling

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 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



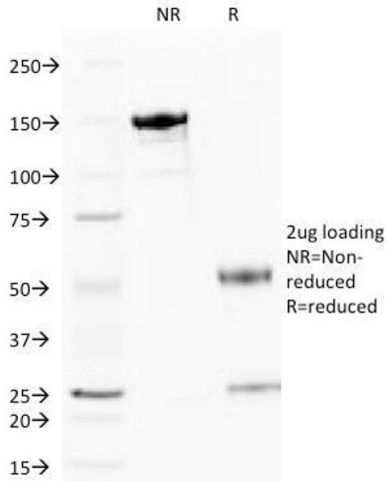
Flow Cytometry

Image 1. Flow Cytometric Analysis of PFA-fixed HeLa cells using Cytochrome C Mouse Monoclonal Antibody (6H2.B4) followed by goat anti-mouse IgG-CF488 (blue), isotype control (red).



Immunofluorescence

Image 2. Confocal Immunofluorescence image of HeLa cells using Cytochrome C Mouse Monoclonal Antibody (6H2.B4) Green (CF488) and Reddot is used to label the nuclei.



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified Cytochrome C Mouse Monoclonal Antibody (6H2.B4). Confirmation of Integrity and Purity of Antibody.