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36-2951: Anti-Cytochrome C (Mitochondrial Marker) Monoclonal Antibody(Clone: rCYCS/1010)

Clonality :	Monoclonal
Clone Name :	rCYCS/1010
Application :	WB,FACS,IHC
Reactivity :	Human, Mouse, Rat
Gene :	CYCS
Gene ID :	54205
Uniprot ID :	P99999
Alternative Name :	CYC; CYCS; HCS; THC4
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Synthetic peptides corresponding to amino acid 1-80, 81-104 and 66-104 of pigeon cytochrome c

Description

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 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 thoÂµght 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).

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Western Blot (1-2ug/ml); Flow Cytometry (1-2ug/million cells); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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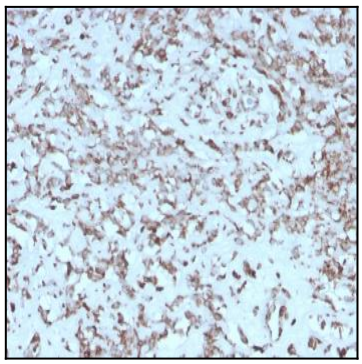


Fig. 1: Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome C Mouse Monoclonal Antibody (rCYCS/1010).

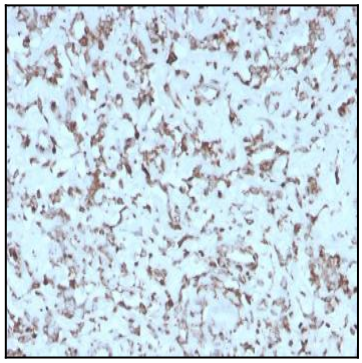


Fig. 2: Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome C Mouse Monoclonal Antibody (rCYCS/1010).

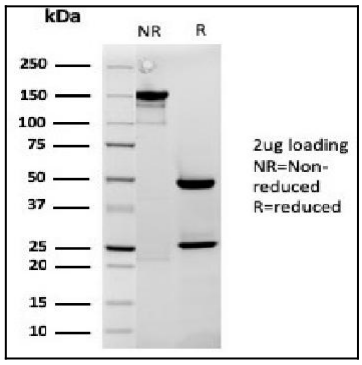


Fig. 3: SDS-PAGE Analysis Purified Cytochrome C Mouse Monoclonal Antibody (rCYCS/1010). Confirmation of Purity and Integrity of Antibody.

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