

Product Datasheet

Recombinant Cytochrome C Antibody (orb639865)

Catalog Number	orb639865
Category	Antibodies
Description	<p>In mammalian cells, the highly conserved cytochrome C 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 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).</p>
Clonality	Recombinant
Species/Host	Rabbit
Isotype	Rabbit IgG
Conjugation	Unconjugated
Reactivity	Human, Mouse, Rat
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein A affinity chromatography
Immunogen	A recombinant full-length human protein was used as the immunogen for this recombinant Cytochrome C antibody.

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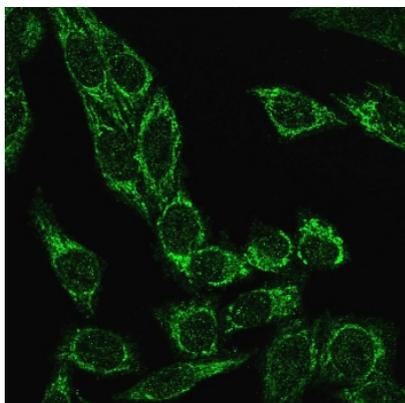
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UniProt ID	P99999
Tested applications	FACS, IF, IHC-P, WB
Dilution range	Immunohistochemistry (FFPE): 0.25-0.5ug/ml, Flow cytometry: 1-2ug/10 ⁶ cells, Western blot: 1-2ug/ml, Immunofluorescence: 1-2ug/ml
Application notes	Optimal dilution of the recombinant Cytochrome C antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	CYCS/3128R
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Immunofluorescent staining of PFA-fixed human HeLa cells with recombinant Cytochrome C antibody (clone CYCS/3128R, green).

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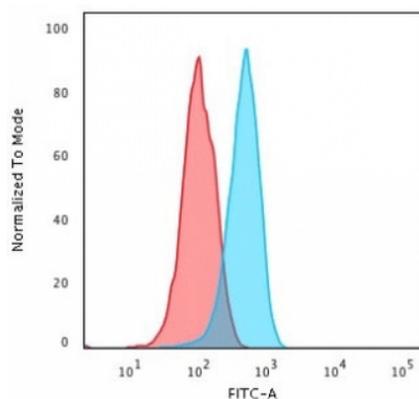
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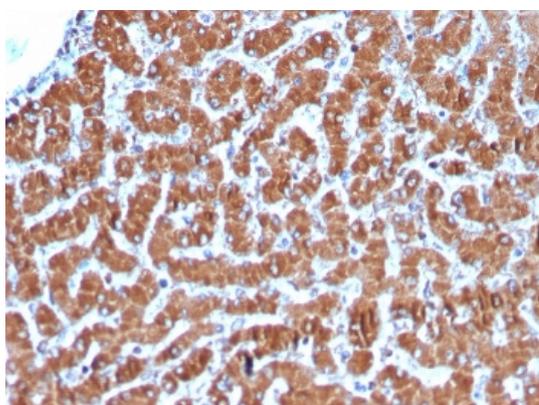
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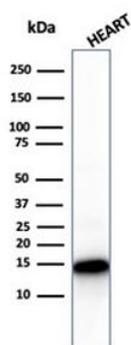
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Flow cytometry testing of PFA-fixed human HeLa cells with recombinant Cytochrome C antibody (clone CYCS/3128R); Red=isotype control, Blue= recombinant Cytochrome C antibody.



IHC staining of FFPE human liver with recombinant Cytochrome C antibody (clone CYCS/3128R). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human heart lysate with recombinant Cytochrome C antibody. Predicted molecular weight: 12-14 kDa.

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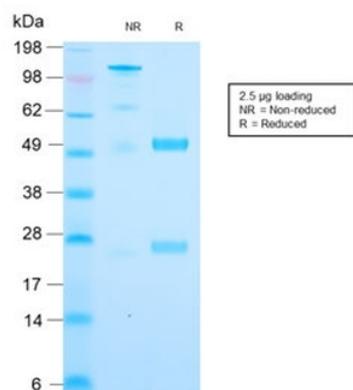
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SDS-PAGE analysis of purified, BSA-free recombinant Cytochrome C antibody (clone CYCS/3128R) as confirmation of integrity and purity.

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