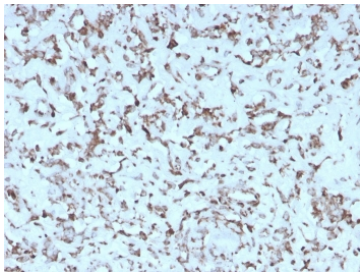
Recombinant Cytochrome C Antibody [clone rCYCS/1010] (V8358)

Catalog No.	Formulation	Size
V8358-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8358-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8358SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

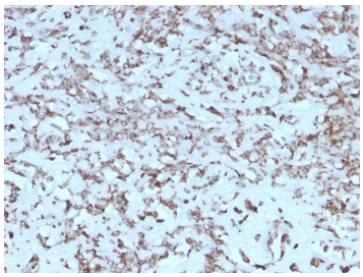
Recombinant MOUSE MONOCLONAL

Bulk quote request

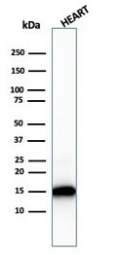
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rCYCS/1010
Purity	Protein G affinity chromatography
UniProt	P99999
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This recombinant Cytochrome C antibody is available for research use only.



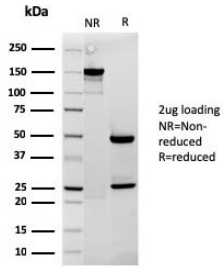
IHC staining of FFPE human liver with recombinant Cytochrome C antibody (clone rCYCS/1010). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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Western blot testing of human heart lysate with recombinant Cytochrome C antibody (clone rCYCS/1010). Predicted molecular weight: 12-14 kDa.



SDS-PAGE analysis of purified, BSA-free recombinant Cytochrome C antibody (clone rCYCS/1010) as confirmation of integrity and purity.

Description

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).

Application Notes

Optimal dilution of the recombinant Cytochrome C antibody should be determined by the researcher.

Immunogen

A human partial protein corresponding to amino acids 81-104 of pigeon Cytochrome C was used as the immunogen for this recombinant Cytochrome C antibody. The epitope has been localized to amino acids 93-104.

Storage

Store the recombinant Cytochrome C antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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