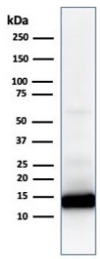
Cytochrome C Antibody [clone CYCS/1010] (V2789)

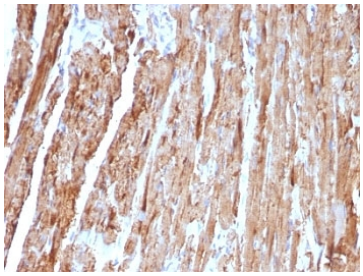
Catalog No.	Formulation	Size
V2789-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2789-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2789SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2789IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

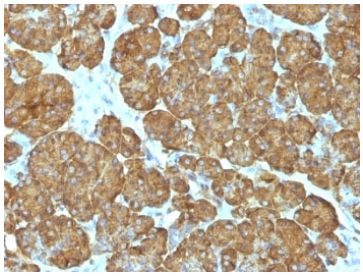
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CYCS/1010
Purity	Protein G affinity chromatography
UniProt	P99999
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 0.25-0.5ug/ml for 30 min at RT
Limitations	This Cytochrome C antibody is available for research use only.



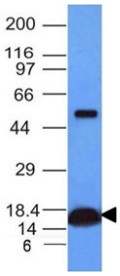
Western blot analysis of human heart lysate using Cytochrome C antibody (CYCS/1010). Predicted molecular weight: 12~14 kDa.



IHC: Formalin-fixed, paraffin-embedded human heart stained with Cytochrome C antibody (CYCS/1010).



IHC: Formalin-fixed, paraffin-embedded human pancreas stained with Cytochrome C antibody (CYCS/1010).



Western blot analysis of human heart lysate using Cytochrome C antibody (CYCS/1010). Predicted molecular weight: 12~14 kDa.

Description

Cytochrome C, or CYCS, is an electron carrier protein. The oxidized form of the CYCS heme group can accept an electron from the heme group of the Cytochrome C1 subunit of cytochrome reductase. CYCS then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain.

CYCS also plays a role in apoptosis. Suppression of the anti-apoptotic members or activation of the pro-apoptotic members of the Bcl-2 family leads to altered mitochondrial membrane permeability resulting in release of CYCS into the cytosol. Binding to Apaf-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases. [UniProt]

Application Notes

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

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human protein was used as the immunogen for the Cytochrome C antibody.

Storage

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

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