

Mouse Anti-Cytochrome C [7H8.2C12]: MC0733, MC0733RTU7

Intended Use: For Research Use Only

Description: Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain. 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 cytochrome c into the cytosol. Binding of cytochrome c to Apaf-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases.

Specifications:

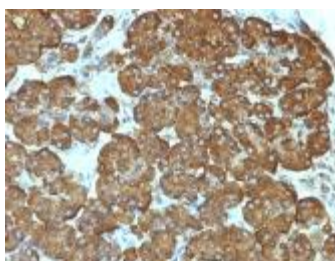
Clone: 7H8.2C12
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Localization: Cytoplasm
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., ICC/IF, WB
 Package:

Description	Catalog No.	Size
Cytochrome C Concentrated	MC0733	1 ml
Cytochrome C Prediluted	MC0733RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Heart
 Concentrated Dilution: 100-300
 Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas stained with Cytochrome C using DAB

References:

1. MLN64 induces mitochondrial dysfunction associated with increased mitochondrial cholesterol content. Balboa E, et al. Redox Biol 12:274-284, 2017.
2. Poly (I:C) transfection induces mitochondrial-mediated apoptosis in cervical cancer. Chen H, et al. Mol Med Rep 13:2689-95. 2016.
3. Myeloid-derived growth factor (C19orf10) mediates cardiac repair following myocardial infarction. Korf-Klingebiel M, et al. Nat Med 21:140-9, 2015.

Doc. 100-MC0733
Rev. A