Best Tools for immunology Research

Cytochrome C protein

Catalog No :	YD0024
Reactivity :	Human
Applications :	WB;SDS-PAGE
Gene Name :	CYCS
Protein Name :	Cytochrome C protein
Sequence :	Amino acid: 1-105, with his-MBP tag.
Human Gene Id :	54205
Human Swiss Prot No :	P99999
Mouse Swiss Prot No :	P62897
Formulation :	Liquid in PBS
Source :	E.coli
Dilution :	WB 1:500-2000
Concentration :	SDS-PAGE >90%
Storage Stability :	-20°C/6 mouth,-80°C for long storage

Background : disease:Defects in CYCS are the cause of thrombocytopenia type 4 (THC4) [MIM:612004]; also known as autosomal dominant thrombocytopenia type 4. Thrombocytopenia is the presence of relatively few platelets in blood. THC4 is a non-syndromic form of thrombocytopenia. Clinical manifestations of thrombocytopenia are absent or mild. THC4 may be caused by dysregulated platelet formation.,function: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.,function: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.,online information:Life shuttle - Issue 76 of November 2006,PTM:Binds 1 heme group per subunit.,similarity:Belongs to the cytochrome c family.,

Function :

DNA catabolic process, endonucleolytic, generation of precursor metabolites and energy, DNA metabolic process, DNA catabolic process, DNA fragmentation involved in apoptosis, apoptosis, activation of caspase activity, cell structure disassembly during apoptosis, nucleus organization, cell death, activation of caspase activity by cytochrome c,macromolecule catabolic process, regulation of cell death, positive regulation of peptidase activity, programmed cell death, energy derivation by oxidation of organic compounds, death, cellular component disassembly, electron transport chain, apoptotic nuclear changes, regulation of apoptosis, regulation of programmed cell death, positive regulation of catalytic activity, positive regulation of caspase activity, regulation of caspase activity, positive regulation of molecular function, cellular macromolecule catabolic process, cellular respiration, r

Subcellular Location :

Mitochondrion intermembrane space. Loosely associated with the inner membrane.

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