

Cytochrome C Antibody

Catalog No: #21680

Package Size: #21680-1 50ul #21680-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

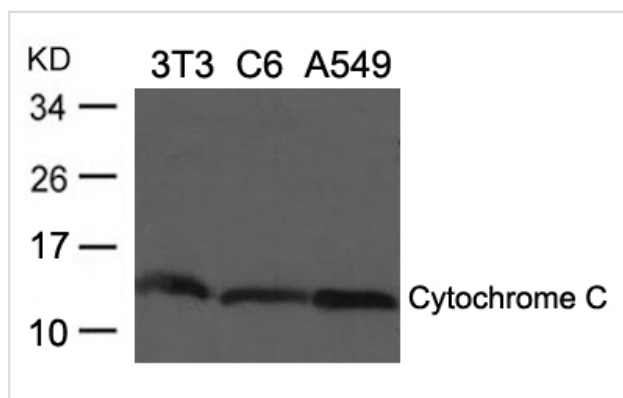
Product Name	Cytochrome C Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total Cytochrome C protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.71-75(N-P-K-K-Y) derived from Human Cytochrome C.
Conjugates	Unconjugated
Target Name	Cytochrome C
Other Names	CYC, HCS, THC4,
Concentration	1.0mg/ml

Application Details

Predicted MW: 14kd

Western blotting: 1: 500~1: 1000

Images



Western blot analysis of extracts from 3T3, C6 and A549 cells using Cytochrome C Antibody #21680.

Background

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.

Published Papers

et al., The role of Insulin-like growth factor 1 in ALS cell and mouse models: A mitochondrial protector. In Brain Res Bull on 2019 Jan by Wen D, Cui C et al..PMID:30414993, , (2019)

[PMID:30414993](#)

et al., PDZRN3 protects against apoptosis in myoblasts by maintaining cyclin A2 expression.In Sci Rep on 2020 Jan 24; by Honda T, Inui M. et al..PMID:31980707, , (2020)

[PMID:31980707](#)

et al., PDZRN3 protects against apoptosis in myoblasts by maintaining cyclin A2 expression.In Sci Rep on 2020 Jan 24; by Honda T, Inui M. et al..PMID:31980707, , (2020)

[PMID:31980707](#)

et al., BAD overexpression inhibits cell growth and induces apoptosis via mitochondrial-dependent pathway in non-small cell lung cancer.In Cancer Cell Int on 2013 Jun 1 by Jiang L, Luo M, et al..PMID:23725574, , (2013)

[PMID:23725574](#)

et al., Apoptosis sensitization by Euphorbia factor L1 in ABCB1-mediated multidrug resistant K562/ADR cells. In Molecules on 2013 Oct 16 by Tao Yi, Yi-Na Tang, et al..PMID: 24135937, , (2013)

[PMID:24135937](#)

et al., Combinational treatment of curcumin and quercetin against gastric cancer MGC-803 cells in vitro Molecules on 2015 Jun 22 by Jian-Ye Zhang , Min-Ting Lin et al..PMID:26111180 , , (2015)

[PMID:26111180](#)

et al., L-carnitine alleviates synovitis in knee osteoarthritis by regulating lipid accumulation and mitochondrial function through the AMPK-ACC-CPT1 signaling pathway InJ Orthop Surg ResOn2023 May 26byTaiyang Liao , Wei Mei et al..PMID:37237380, , (2023)

[PMID:37237380](#)

et al., Bruceine D induces apoptosis in human chronic myeloid leukemia K562 cells via mitochondrial pathway.In Am J Cancer Res on 2016 Mar 15 by Jian-Ye Zhang, Min-Ting Lin et al..PMID: 27186433, , (2016)

[PMID:27186433](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.