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10-1050: Monoclonal antibody to Cytochrome C (Clone: ABM30B3)

Clonality :	Monoclonal
Clone Name :	ABM30B3
Application :	FACS,WB
Reactivity :	Rat,Mouse,Human
Gene :	CYCS
Gene ID :	54205
Uniprot ID :	P99999
Format :	Purified
Alternative Name :	CYCS,CYC
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	Full length recombinant Cytochrome C protein was used as the immunogen for this antibody.

Description

Cytochrome C is an inner mitochondrial membrane hemeprotein encoded by CYCS gene. Cytochrome C has two major roles within the cell; firstly, it acts as an electron carrier between Complex III (Cytochrome bc1 complex) and Complex IV (Cytochrome C oxidase). The second important function of Cytochrome C is in apoptosis. In response to extrinsic or intrinsic signals and upon suppression of anti-apoptotic molecules, several pro-apoptotic molecules are activated that disturb the mitochondrial membrane permeability and causes the release of Cytochrome C. Cytochrome C then binds to apoptotic protease activating factor-1 (Apaf-1). This complex interacts with pro-caspase 9 and initiates the caspase cascade resulting in apoptosis. Human Cytochrome C has a molecular mass of 11 kDa. Defect in the CYCS gene is associated with autosomal dominant diseases like thrombocytopenia type 4 (THC4). High levels of Cytochrome C are found in blood leukocytes, kidney, liver, heart and brain.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis:2-4 µg/ml; FACS Analysis: 0.5-1 µg/10^6 cells

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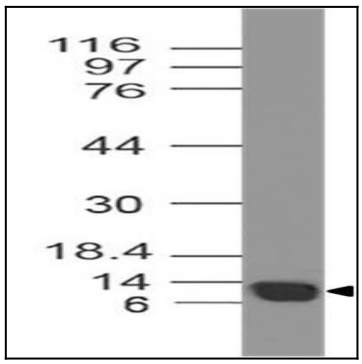


Figure:1- Western blot analysis of Cytochrome C. Anti-Cytochrome C antibody (Clone: ABM30B3) was tested at 2 µg/ml on h Kidney lysate.

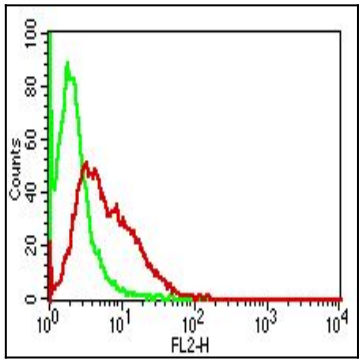


Figure:2- Intracellular Flow analysis of Cytochrome C antibody in A431 cells using 0.5 µg/ 10^6 cells of anti-Cytochrome C antibody (ABM30B3). Green represents isotype control;red represents anti-Cytochrome C antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

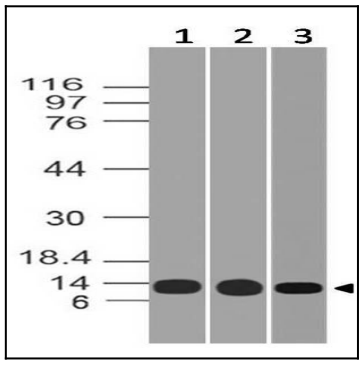


Figure:3- Western blot analysis of Cytochrome C. Anti-Cytochrome C antibody (Clone: ABM30B3) was tested at 2 µg/ml on (1) m Kidney, (2) r Kidney and (3) 3T3 lysates.

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