

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM30B3
<b>Application :</b>	FACS, WB
<b>Reactivity :</b>	Rat, Mouse, Human
<b>Gene :</b>	CYCS
<b>Gene ID :</b>	54205
<b>Uniprot ID :</b>	P99999
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CYCS, CYC
<b>Isotype :</b>	Mouse IgG2b Kappa
<b>Immunogen Information :</b>	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

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein G Chromatography
<b>Content :</b>	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.
<b>Storage condition :</b>	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<sup>6</sup> cells

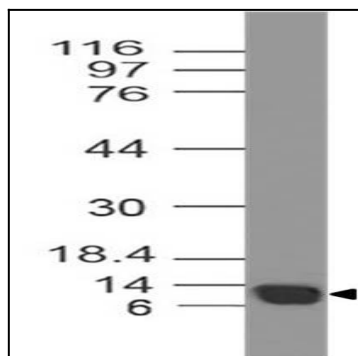


Figure:1- Western blot analysis of Cytochrome C. Anti-Cytochrome C antibody (Clone: ABM30B3) was tested at 2  $\mu$ g/ml on h Kidney lysate.

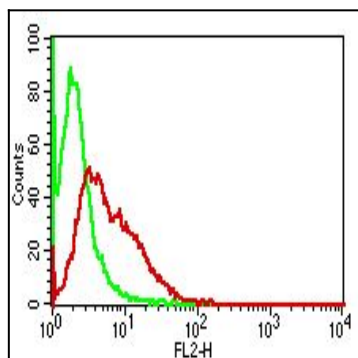


Figure:2- Intracellular Flow analysis of Cytochrome C antibody in A431 cells using 0.5  $\mu$ g/  $10^6$  cells of anti-Cytochrome C antibody (ABM30B3). Green represents isotype control; red represents anti-Cytochrome C antibody. Goat anti-mouse PE conjugate was used as secondary antibody.

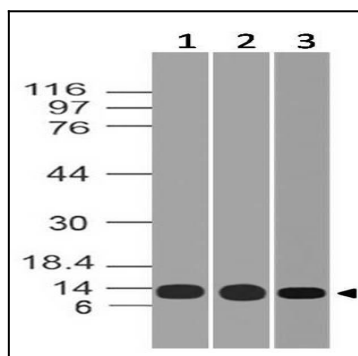


Figure:3- Western blot analysis of Cytochrome C. Anti-Cytochrome C antibody (Clone: ABM30B3) was tested at 2  $\mu$ g/ml on (1) m Kidney, (2) r Kidney and (3) 3T3 lysates.