

## Cytochrome C (Mitochondrial Marker) Antibody

Mouse Monoclonal Antibody [Clone 6H2.B4]

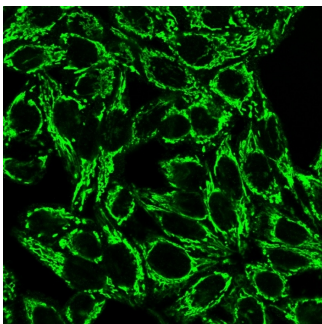
Catalog No	Format	Size
54205-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
54205-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
54205-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

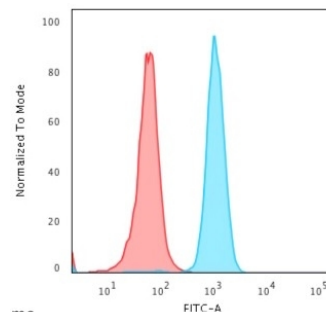
Product Details	
Clone	6H2.B4
Gene Name	CYCS
Immunogen	Rat full-length cytochrome c protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	15kDa
Cellular Localization	Mitochondrion intermembrane space
Species Reactivity	Human, Mouse, Rat
Positive Control	HeLa, HL-60, Jurkat, K-562, NIH3T3 or PC-3 cells. Liver or Cardiac muscle.

\*Optimal dilution for a specific application should be determined.

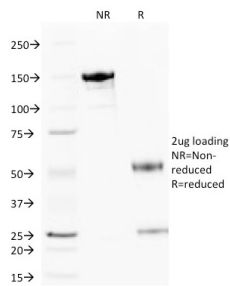
### Product Images for Cytochrome C (Mitochondrial Marker) Antibody



Immunofluorescence Analysis of PFA-fixed HeLa cells labeling Cytochrome C Mouse Monoclonal Antibody (6H2.B4) followed by goat anti-mouse IgG-CF488 (green).



Flow Cytometric Analysis of PFA-fixed HeLa cells using Cytochrome C Mouse Monoclonal Antibody (6H2.B4) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



SDS-PAGE Analysis of Purified Cytochrome C Mouse Monoclonal Antibody (6H2.B4)  
Confirmation of Integrity and Purity of Antibody.

### Specificity & Comments

Cytochrome c is a well-characterized mobile electron transport protein that is essential to energy conversion in all aerobic organisms. In mammalian cells, this highly conserved protein is normally localized to the mitochondrial inter-membrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is trans-located from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c and to induce cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic cascade, whereby Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleavage of caspase-3.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 1mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Apoptosis, Autophagy, Cardiovascular, Complement System, Lung Cancer, Mitochondria Marker, Transcription Factors