Recombinant Cytochrome C (Mitochondrial Marker) Antibody

Rabbit Monoclonal Antibody [Clone CYCS/3128R]

Catalog No	Format	Size
54205-RBM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
54205-RBM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
54205-RBM6-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

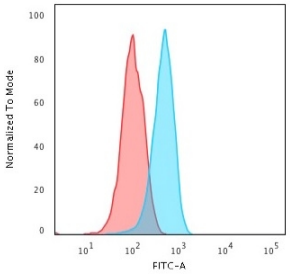
Applications	Tested Dillution	Note
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

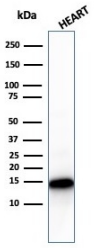
Clone	CYCS/3128R
Immunogen	Recombinant full-length human Cytochrome C (I Marker) protein
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	11.75kDa
Cellular Localization	Mitochondrion intermembrane space
Species Reactivity	Human
Positive Control	HeLa, HL-60, Jurkat, K-562, NIH3T3 or PC-3 cells. Liver or Cardiac muscle, Human Intestine, Human Heart, Human Skeletal Muscle, A549

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

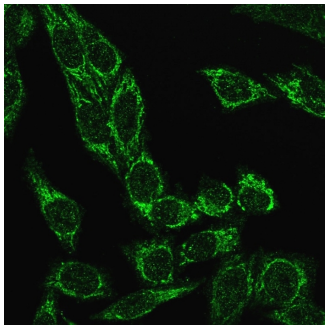
Product Images for Recombinant Cytochrome C (Mitochondrial Marker) Antibody



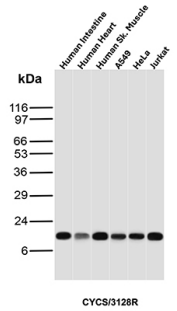
Flow Cytometric Analysis of PFA fixed HeLa cells using Cytochrome C Recombinant Rabbit Monoclonal Antibody (CYCS/3128R) followed by Goat anti-rabbit IgG-CF488 (Blue); Goat anti-mouse IgG-CF488 is Control (Red).



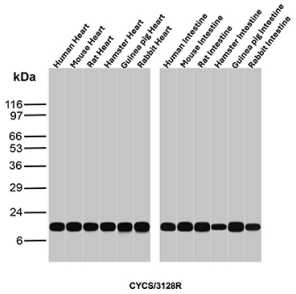
Western Blot Analysis of Heart tissue lysate using Cytochrome C Recombinant Rabbit Monoclonal Antibody (CYCS/3128R).



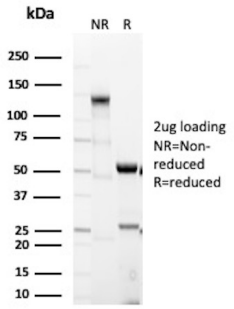
Immunofluorescence Analysis of PFA fixed HeLa cells labeling Cytochrome C Recombinant Rabbit Monoclonal Antibody (CYCS/3128R) followed by Goat anti-rabbit IgG-CF488 (Green)



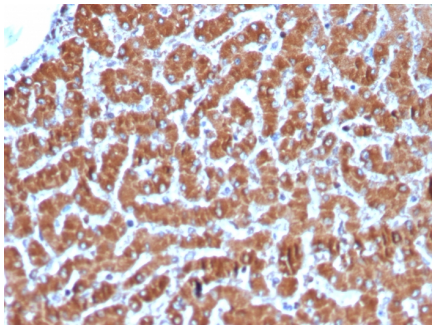
Western Blot Analysis of Human Intestine, Human Heart, Human Skeletal Muscle, A549, HeLa and Jurkat lysates using Cytochrome C Recombinant Rabbit Monoclonal Antibody (CYCS/3128R).



Western Blot Analysis of Heart and Intestine tissue lysates of different species using Cytochrome C Recombinant Rabbit Monoclonal Antibody (CYCS/3128R).



SDS-PAGE Analysis of Purified Cytochrome c Rabbit Monoclonal Antibody (CYCS/3128R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Liver stained with Cytochrome C Recombinant Rabbit Monoclonal Antibody (CYCS/3128R).

Specificity & Comments

It recognizes an epitope within amino acids 93-104 of pigeon Cytochrome C, 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. This MAb recognizes total cytochrome C which includes both apocytochrome (i.e. cytochrome in the cytosol without heme attached) and holocytochrome (i.e. cytochrome in the mitochondria with heme attached).

Supplied As

200ug/ml of Ab produced in a mammalian-based expression system. Prepared in 10mM 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.

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.