

For Research Use Only

Cytochrome c Monoclonal antibody, PBS Only



Catalog Number: 66264-1-PBS

Featured Product

Basic Information

Catalog Number:

66264-1-PBS

Size:

100ug, Concentration: 1mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG24349

GenBank Accession Number:

BC009578

GeneID (NCBI):

54205

UNIPROT ID:

P99999

Full Name:

cytochrome c, somatic

Calculated MW:

12 kDa

Observed MW:

12-15 kDa

Purification Method:

Protein A purification

CloneNo.:

2D8D11

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:

human, mouse, rat

Background Information

Cytochrome c is a 12-15 kDa electron transporting protein located in the inner mitochondrial membrane. Upon apoptotic stimulation, cytochrome c can be released from mitochondria into cytoplasm, resulting in caspase-3 activation and apoptosis. Measurement of cytochrome c release from the mitochondria is useful for detection of the onset of apoptosis in cells. In addition, cytochrome c can also leave cells and be detectable in extra-cellular medium of apoptotic cells and serum of cancer patients. The level of serum cytochrome c may serve as a prognostic maker during cancer therapy.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

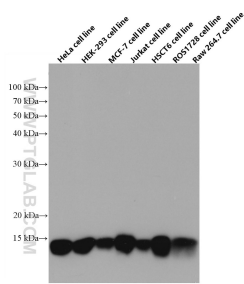
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

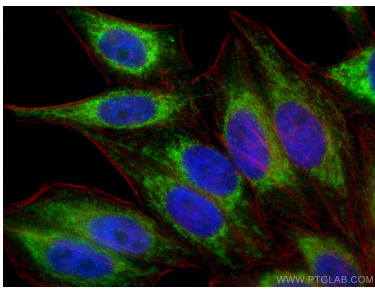
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

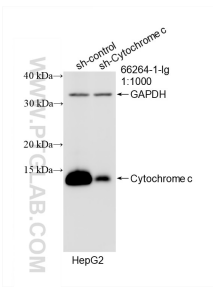
Selected Validation Data



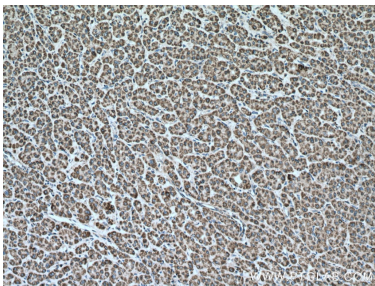
Various cells were subjected to SDS PAGE followed by western blot with 66264-1-Ig (Cytochrome c antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



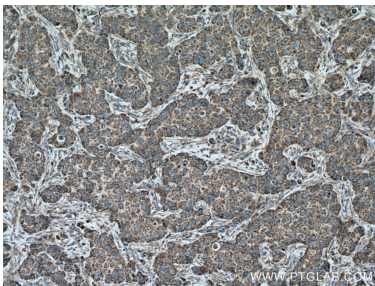
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Cytochrome c antibody (66264-1-Ig, Clone: 2D8D11) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-phalloidin (red). This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



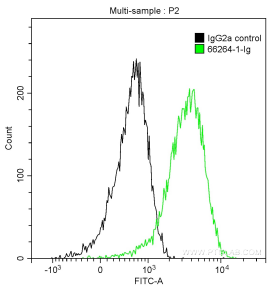
WB result of Cytochrome c antibody (66264-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytochrome c transfected HepG2 cells. This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



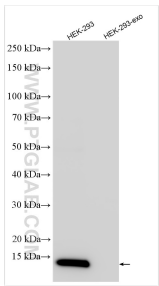
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66264-1-Ig (Cytochrome c antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66264-1-Ig (Cytochrome c antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



1X10⁶ HepG2 cells were intracellularly stained with 0.2 ug Anti-Human Cytochrome c (66264-1-Ig, Clone:2D8D11) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100. This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



HEK-293 cells and HEK-293-derived exosomes (HEK-293-exo) were subjected to SDS PAGE followed by western blot with 66264-1-Ig (Cytochrome c antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.