For Research Use Only

Cytochrome c Monoclonal antibody, PBS Only

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Antibodies | ELISA kits | Proteins
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Catalog Number:66264-1-PBS Featured Product

Basic Information

Catalog Number:
66264-1-PBS

Size:
100ug , Concentration: 1 mg/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, IF, FC, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

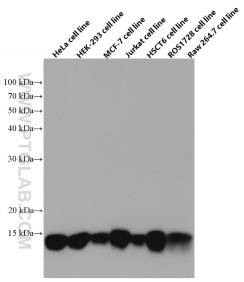
Cytochrome c is a 12-15 kDa electron transporting protein located in the inner mitochondrial membrane. Upon apoptotic stimulation, cytochrome c can be released from mitochondria into cytoplasm, resulting in caspase-3 activation and apoptosis. Measurement of cytochrome c release from the mitochondria 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

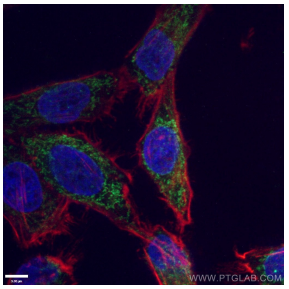
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

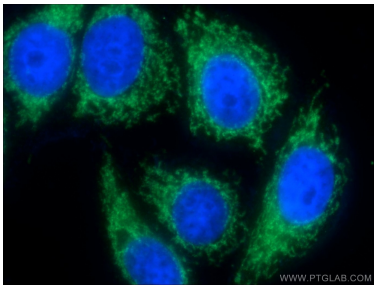
Selected Validation Data



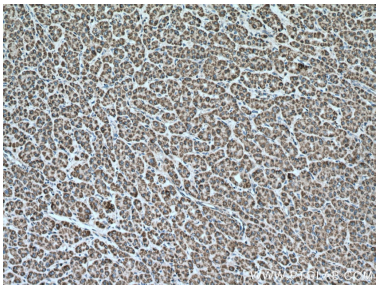
Various cells were subjected to SDS PAGE followed by western blot with 66264-1-Ig (Cytochrome c antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



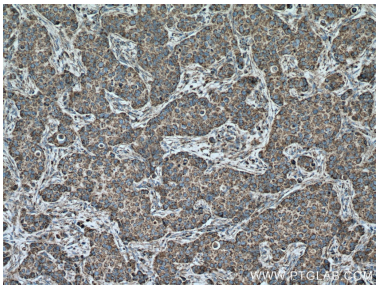
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66264-1-Ig (Cytochrome c antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Cells were co-stained with phalloidin in red. This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



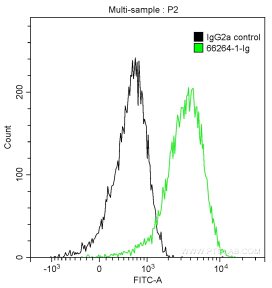
Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66264-1-Ig(Cytochrome c antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66264-1-PBS in a different storage buffer formulation.



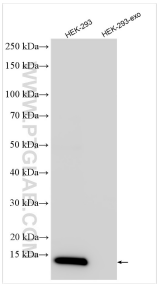
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66264-1-Ig (Cytochrome c antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66264-1-PBS in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



1X10^6 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.