bsm-33193M **[Primary Antibody]**

Cytochrome C Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 6B10
GeneID: 54205
SWISS: P99999
Target: Cytochrome C
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Cytochrome C is an electron transporting protein that resides within the intermembrane space of the mitochondria, where it plays a critical role in the process of oxidative phosphorylation and production of cellular ATP. An increasing amount of interest has been directed toward the role which cytocrome C has been demonstrated to play in apoptotic processes. Following exposure to apoptotic stimuli, cytochrome C is rapidly released from the mitochondria into the cytosol, an event which may be required for the completion of apoptosis in some systems. Cytosolic cytochrome C functions in the activation of caspase 3, an ICE family molecule that is a key effector of apoptosis.

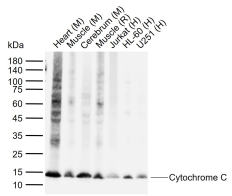
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat

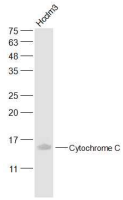
Predicted MW.: 12 kDa

Subcellular Location: Mitochondrion

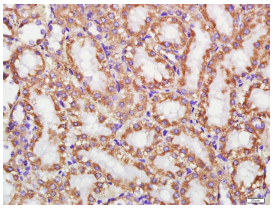
VALIDATION IMAGES



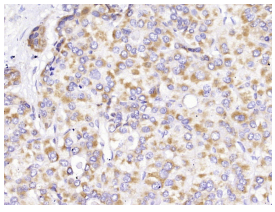
Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Mouse Muscle tissue lysates Lane 3: Mouse Cerebrum tissue lysates Lane 4: Rat Muscle tissue lysates Lane 5: Human Jurkat cell lysates Lane 6: Human HL-60 cell lysates Lane 7: Human U251 cell lysates Primary: Anti-Cytochrome C (bsm-33193M) at 1/2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 14 kDa Observed band size: 14 kDa



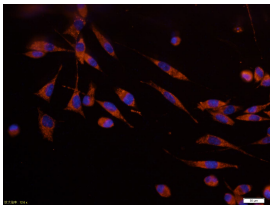
Sample: Hcclm3(Human) Cell Lysate at 30 ug Primary: Anti-Cytochrome C (bsm-33193M) at 1/100000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 14 kD Observed band size: 14 kD



Paraformaldehyde-fixed, paraffin embedded (Rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytochrome C) Monoclonal Antibody, Unconjugated (bsm-33193M) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block



SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20

endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytochrome C) Monoclonal Antibody, Unconjugated (ascites of bsm-33193M 6B10) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.

min; Antibody incubation with (Cytochrome C) monoclonal Antibody, Unconjugated (bsm-33193M) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=7.9]** Chen Hongli. et al. Photobiomodulation modulates mitochondrial energy metabolism and ameliorates neurological damage in an APP/PS1 mousmodel of Alzheimer’ s disease. ALZHEIMERS RES THER. 2025 Dec;17(1):1-25 IHC ;Mouse. 40188044
- **[IF=6.1]** Na Liu. et al.Nobiletin: a potential erythropoietin receptor activator protects renal cells against hypoxia.APOPTOSIS.2025 Jan 4. Western blot ;Human. 39755823
- **[IF=4.927]** Xiao-Jiao Chen. et al. Extracts of Knoxia roxburghii (Spreng.) M. A. Rau Induce Apoptosis in Human MCF-7 Breast Cancer Cells via Mitochondrial Pathways. MOLECULES. 2022 Jan;27(19):6435 WB ;Human. 36234972
- **[IF=3.708]** Xuena Zhang. et al. Luteoloside Prevents Sevoflurane-induced Cognitive Dysfunction in Aged Rats via Maintaining Mitochondrial Function and Dynamics in Hippocampal Neurons. NEUROSCIENCE. 2023 Feb;: WB ;Rat. 36764603
- **[IF=2.57]** Ding, Wensen, et al. "Increased expression of HERPUD1 involves in neuronal apoptosis after intracerebral hemorrhage." Brain Research Bulletin 128 (2017): 40-47. WB ;="Rat". 27871950