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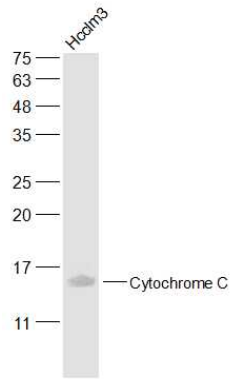
Cytochrome C Mouse mAb

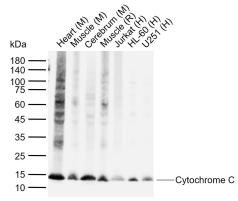
Catalog Number:	bsm-33193M
Target Protein:	Cytochrome C
Concentration:	1mg/ml
Form:	Size : 50ul/100ul/200ul Liquid Size : 200ug (PBS only) Lyophilized Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.
Host:	Mouse
Clonality:	Monoclonal
Clone No.:	6B10
Isotype:	IgG
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
Detected MW:	14.4 kDa
Subcellular Locations:	Mitochondrion
Entrez Gene:	54205
Swiss Prot:	P99999
Purification:	affinity purified by Protein G
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.

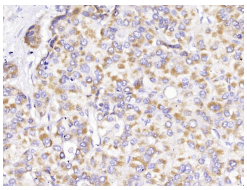
VALIDATION IMAGES



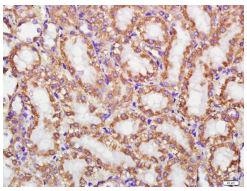
Sample: Hcclm3(Human) Cell Lysate at 30 ug Primary: Anti-Cytochrome C (bsm-33193M) at 1/100000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 14 kD Observed band size: 14 kD



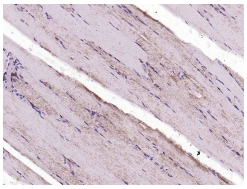
Sample: Lane 1: Mouse Heart tissue lysates Lane 2: Mouse Muscle tissue lysates Lane 3: Mouse Cerebrum tissue lysates Lane 4: Rat Muscle tissue lysates Lane 5: Human Jurkat cell lysates Lane 6: Human HL-60 cell lysates Lane 7: Human U251 cell lysates Primary: Anti-Cytochrome C (bsm-33193M) at 1/2000 dilution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



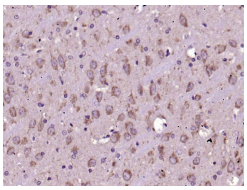
Paraformaldehyde-fixed, paraffin embedded (Human liver cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Cytochrome C) Monoclonal Antibody, Unconjugated (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.



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 (rat skeletal muscle); 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 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); 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 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[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

[IF=2.1] Yanxin Jia. et al. Wnt10b knockdown promotes UCP1 expression in brown adipose tissue in mice. GENES CELLS. 2023 Sep;: WB ; Mouse . 37691290