

bsm-33428M**[Primary Antibody]****Bioss**
ANTIBODIES

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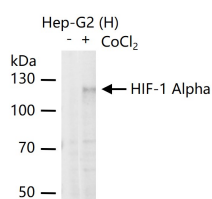
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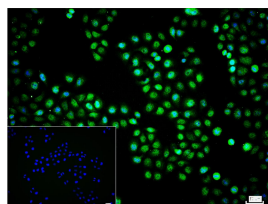
400-901-9800

HIF1A | HIF1-alpha Mouse mAb**— DATASHEET —**

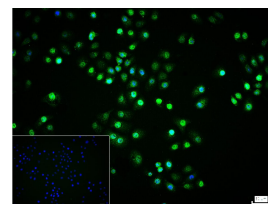
Host: Mouse	Isotype: IgG1	Applications: WB (1:1000-5000) Flow-Cyt (1ug/Test) ICC/IF (1:100-500) Reactivity: Human (predicted: Mouse, Rat) Predicted MW.: 92 kDa Observed MW.: 125 kDa Subcellular Location: Cytoplasm ,Nucleus
Clonality: Monoclonal	CloneNo.: 3G9	
GeneID: 3091	SWISS: Q16665	
Target: HIF1A HIF1-alpha		
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Background: 缺氧诱导因子1Alpha不仅对于机体在缺氧条件下维持正常的生理功能具有特别重要的意义,并在肿瘤的生长以及神经细胞凋亡等病理过程中起重要作用. HIF1 alpha能调节许多下游基因的表达水平. 哺乳动物细胞在低氧压力条件下出现HIF. HIF是一种转录因子,对细胞的缺氧起稳定作用.		

— VALIDATION IMAGES —

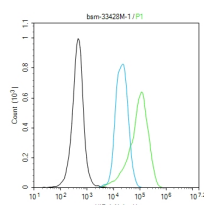
Hep-G2 (H) cells were treated with or without CoCl₂ (500uM) for 6 h, 25 µg total protein per lane of cell lysates (see on figure) probed with HIF-1 Alpha monoclonal antibody, unconjugated (bsm-33428M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed HeLa (treated with 1mM CoCl₂ for 24 hours) (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1a) monoclonal Antibody, unconjugated (bsm-33428M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



4% Paraformaldehyde-fixed HepG2 (treated with 1mM CoCl₂ for 24 hours) (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1a) monoclonal Antibody, unconjugated (bsm-33428M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-60296G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The HeLa (treated with 500uM CoCl₂ for 6 hours) (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Mouse Anti-HIF-1 Alpha antibody (bsm-33428M): 1 µg/10⁶ cells; Secondary Antibody (white blue): Goat anti-Mouse IgG-BF488 (bs-60296G-BF488): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

— SELECTED CITATIONS —

- **[IF=18]** Zetao Wang, et al. Nano-vibration exciter: Hypoxia-inducible factor 1 signaling pathway-mediated extracellular vesicles as bioactive glass substitutes for bone regeneration. BIOACT MATER. 2024 Oct;40:460 IF ;Mouse.
10.1016/j.bioactmat.2024.06.023