

bs-20398R**[Primary Antibody]****BioSS**
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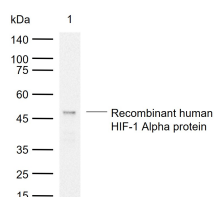
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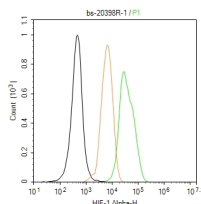
400-901-9800

HIF-1 Alpha Rabbit pAb**DATASHEET**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) Flow-Cyt (1µg/Test) ICC/IF (1:50-200)
Clonality: Polyclonal		
GeneID: 3091	SWISS: Q16665	
Target: HIF-1 Alpha		Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)
Immunogen: KLH conjugated synthetic peptide derived from human HIF-1 Alpha: 451-550/826.		
Purification: affinity purified by Protein A		Predicted MW.: 92 kDa
Concentration: 1mg/ml		Subcellular Location: Cytoplasm ,Nucleus
Storage: Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4. 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

Sample: Lane 1: Recombinant human HIF-1 Alpha protein, N-Trx-His(bs-42326P) Primary: Anti-HIF-1 Alpha (bs-20398R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92 kDa Observed band size: 47 kDa



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.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-HIF-1 Alpha antibody (bs-20398R); 1 µg/10⁶ cells; Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.4]** Xia Lei. et al. pH-responsive photothermal effect and heterojunction formation for tumor-specific pyroelectrodynamic and nanozyme-catalyzed starvation therapy..Acta Biomaterialia.2025 Mar 18:S1742-7061(25)00204-1. IHC,IF ;Mouse. 40113022
- **[IF=8.2]** Shaorong Li. et al. Dual-functional 3D-printed porous bioactive scaffold enhanced bone repair by promoting osteogenesis and angiogenesis. MATER TODAY BIO. 2024 Feb;24:100943 IHC ;Rabbit. 10.1016/j.mtbio.2024.100943
- **[IF=6.304]** Yan Liu. et al. Long noncoding RNA LINC00518 induces radioresistance by regulating glycolysis through an miR-33a-3p/HIF-1α negative feedback loop in melanoma. Cell Death Dis. 2021 Mar;12(3):1-19 WB,IP ;Human. 33664256

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

- **[IF=6]** Xijin Zhu. et al. Feedback regulation between AMPK and HIF-1 α contributes to color stability via energy metabolism and mitochondrial efficiency regulation of yak meat. LWT-FOOD SCI TECHNOL. 2024 Apr;;116031 WB ;Bovine. 10.1016/j.lwt.2024.116031
- **[IF=5.742]** Pan Cao. et al. Sirtuin1 attenuates acute liver failure by reducing reactive oxygen species via hypoxia inducible factor 1 α . WORLD J GASTROENTERO. 2022 May 7; 28(17): 1798–1813 WB ;Human,Mouse. 35633910