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HIF-1 Alpha Rabbit pAb

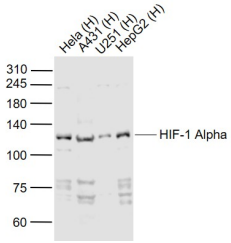
Catalog Number:	bs-20399R
Target Protein:	HIF-1 Alpha
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), Flow-Cyt (1μg/Test)
Reactivity:	Human (predicted:Mouse, Rat, Chicken)
Predicted MW:	92 kDa
Entrez Gene:	3091
Swiss Prot:	Q16665
Source:	KLH conjugated synthetic peptide derived from human HIF-1 Alpha: 661-760/826.
Purification:	affinity purified by Protein A
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:

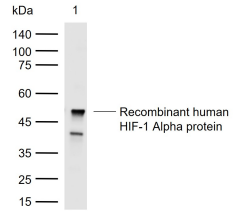
缺氧诱导因子1Alpha不仅对于机体在缺氧条件下维持正常的生理功能具有特别重要的意义, 并在肿瘤的生长以及神经细胞凋亡等病理过程中起重要作用. HIF1 alpha能调节许多下游基因的表达水平.

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。

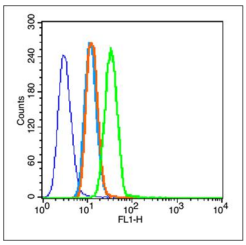
VALIDATION IMAGES



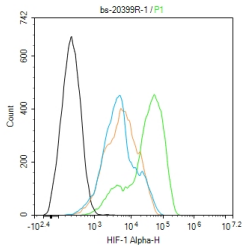
Sample: Lane 1: Hela (Human) Cell Lysate at 30 ug Lane 2: A431 (Human) Cell Lysate at 30 ug Lane 3: U251 (Human) Cell Lysate at 30 ug Lane 4: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-HIF-1 Alpha (bs-20399R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92 kD Observed band size: 120 kD



Sample: Lane 1: Recombinant human HIF-1 Alpha protein, N-Trx-His(bs-42326P) Primary: Anti-HIF-1 Alpha (bs-20399R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 92 kDa Observed band size: 52 kDa



Blank control (blue line): Hela (fixed with 80% methanol (5 min at -20°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti- HIF-1 Alpha antibody (bs-20399R), Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1µg /test.



The HepG2 (H) （treated with 500uM CoCl2 for 6 hours）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):Rabbit Anti-HIF-1 Alpha antibody (bs-20399R): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-FITC (bs-40295G-FITC): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[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

[IF=15.304] Yao Lei. et al. Phytochemical natural killer cells reprogram tumor microenvironment for potent immunotherapy of solid tumors. BIOMATERIALS. 2022 Jun;:121635 IF ; Mouse . 10.1016/j.biomaterials.2022.121635

[IF=14.7] Xu Ke-Fei. et al. Hyperbaric oxygen enhances tumor penetration and accumulation of engineered bacteria for synergistic photothermal immunotherapy. NAT COMMUN. 2024 Jun;15(1):1-21 IF ; Mouse . 38886343

[IF=15.1] Hang Xu. et al. Azo-based hypoxic-activated 6-diazo-5-oxo-L-norleucine (DON) prodrug combined with vascular disrupting agent nanoparticles for tumor-selective glutamine metabolism blockade. CHEM ENG J. 2024 Feb;481:148281 IHC ; Mouse . 10.1016/j.cej.2023.148281

[IF=13.3] Zhiyuan Luo. et al. Quorum Sensing Interference Assisted Therapy-Based Magnetic Hyperthermia Amplifier for Synergistic Biofilm Treatment. SMALL. 2023 Sep;:2304836 IF ; Mouse . 37752756