**bsm-62518R** **[ Primary Antibody ]**

# HIF-1 Alpha Recombinant Rabbit mAb

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## DATASHEET

**Host:** Rabbit
**Isotype:** IgG
**Clonality:** Recombinant
**CloneNo.:** 4H12
**GeneID:** 3091
**SWISS:** Q16665
**Target:** HIF-1 Alpha

**Immunogen:** A synthesized peptide derived from human HIF 1 alpha: 616-674/826.

**Purification:** affinity purified by Protein A

**Storage:** 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol. Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles.

**Background:** Functions as a master transcriptional regulator of the adaptive response to hypoxia.Under hypoxic conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia.

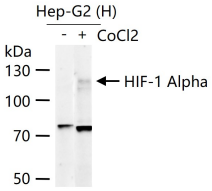
**Applications:** **WB** (1:500-2000)
**Flow-Cyt** (1:50-100)
**ICC/IF** (1:50-200)

**Reactivity:** Human (predicted: Mouse, Rat)

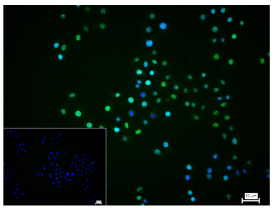
**Predicted MW.:** 93

**Subcellular Location:** Cytoplasm ,Nucleus

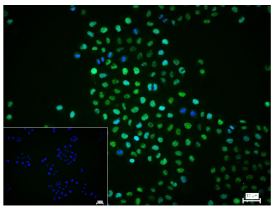
## VALIDATION IMAGES



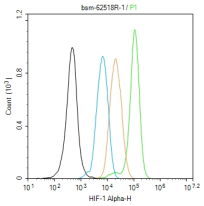

Hep-G2 (H) cells were treated with or without CoCl2 (500uM) for 6 h, 25 µg total protein per lane of cell lysates (see on figure) probed with HIF-1 Alpha monoclonal antibody, unconjugated (bsm-62518R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed HepG2 (H) （HepG2 treated with 500uM CoCl2 for 6 hours） cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1 Alpha) monoclonal Antibody, unconjugated (bsm-62518R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-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 Hela (H) （HeLa treated with 500uM CoCl2 for 6 hours） cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1 Alpha) monoclonal Antibody, unconjugated (bsm-62518R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-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):Rabbit Anti-HIF-1 Alpha antibody (bsm-62518R): 1:50-100/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488): 1 µg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS.

Acquisition of 20,000 events was performed.

## SELECTED CITATIONS

- **[IF=4.8]** Le Qiu. et al. Study on the mechanism of no. 8 burn ointment in burn treatment based on network pharmacology and experimental verification. FRONT PHARMACOL. 2025 Jul;16: IHC ;Rat. 40761397