SunLong Biotech Co.,LTD
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[Primary Antibody]

Recombinant Rabbit Anti-HIF1A Monoclonal Antibody

Catalog Number: SLA0432M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Clone No.:	3G9
GeneID:	3091
SWISS:	Q16665
Target:	HIF1A
Immunogen:	Recombinant human HIF-1 Alpha Protein
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℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:1000-5000) Flow-Cyt (1ug/Test) ICC/IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human
Predicted MW.:	92 kDa
Subcellular Location:	Nucleus
Background:	Hypoxia-inducible factor 1 alpha is not only of particular significance for the body to maintain normal physiological functions under hypoxic conditions,and plays an important role in pathological processes such as tumor growth and neuronal apoptosis. HIF1 alpha can regulate the expression levels of many downstream genes. HIF appears in mammalian cells under hypoxic stress conditions. HIF is a transcription factor, stabilizes cells under hypoxia.

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

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[VALIDATION IMAGES]

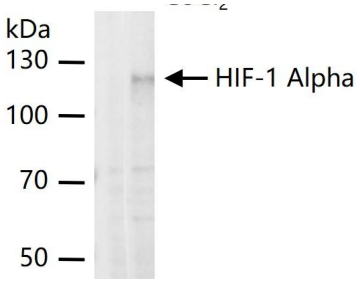


Figure 1. Hep-G2 (H) cells were treated with or without CoCl2 (500uM) for 6 h, 25 µg total protein per lane of cell lysates (see on figure) probed with HIF-1 Alpha monoclonal antibody, unconjugated (SLA0432M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min

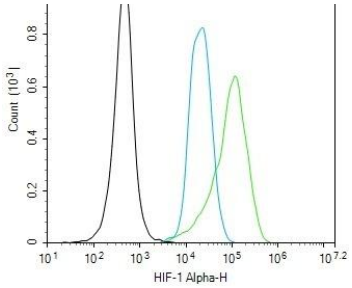


Figure 2. The Hela (treated with 500uM CoCl2 for 6 hours) (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Mouse Anti-HIF-1 Alpha antibody (SLA0432M): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Mouse IgG-BF488 (SL60296G-BF488): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed

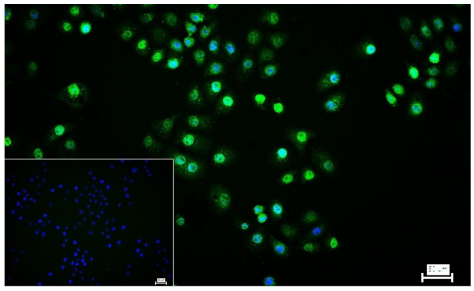


Figure 3. 4% Paraformaldehyde-fixed HepG2（treated with 1mM CoCl2 for 24 hours） (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1a) monoclonal Antibody, unconjugated (SLA0432M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, SL60296G-BF488) at 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

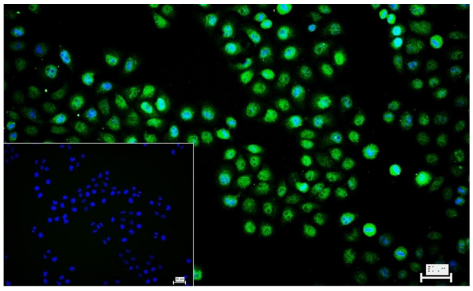


Figure 4. 4% Paraformaldehyde-fixed Hela（treated with 1mM CoCl2 for 24 hours） (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HIF-1a) monoclonal Antibody, unconjugated (SLA0432M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, SL60296G-BF488) at 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

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