SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HIF1 beta antibody

Catalog Number: SL1407R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HIF1 beta
Immunogen:	KLH conjugated synthetic peptide derived from human HIF-1 Beta: 681-789/789
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 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 Flow-Cyt=2ug/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	87kDa
Subcellular Location:	The nucleus
Background:	This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. **Function:** Required for activity of the Ah (dioxin) receptor. This protein is required for the ligand-binding subunit to translocate from the cytosol to the

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	nucleus after ligand binding. The complex then initiates transcription of genes involved in the activation of PAH procarcinogens. The heterodimer with HIF1A or EPAS1/HIF2A functions as a transcriptional regulator of the adaptive response to hypoxia. **Subunit:** Efficient DNA binding requires dimerization with another bHLH protein. Forms a heterodimer with AHR, AHRR, HIF1A and EPAS1/HIF2A as well as with other bHLH proteins. Interacts with TACC3 (By similarity). Interacts with NOCA7. Heterodimer with HIF1A. **Subcellular Location:** Nucleus. **Similarity:** Contains 1 bHLH (basic helix-loop-helix) domain. Contains 1 PAC (PAS-associated C-terminal) domain. Contains 2 PAS (PER-ARNT-SIM) domains. **Database links:** **Entrez Gene:** 405 Human **Entrez Gene:** 11863 Mouse **Entrez Gene:** 25242 Rat Omim: 126110 Human **SwissProt:** P27540 Human **SwissProt:** P53762 Mouse **SwissProt:** P41739 Rat **Unigene:** 632446 Human **Unigene:** 250265 Mouse **Unigene:** 10520 Rat transcriptional regulatory factor（Transcriptin Regulators） Hypoxia-inducible factor 1β is 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 neural apoptosis. HIF1β, also known as aryl hydrocarbon receptor nuclear translocator 1, can regulate the expression levels of many downstream genes. HIF appears in mammalian cells under hypoxic stress conditions. HIF is a transcription factor that stabilizes the hypoxic response of cells.

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[VALIDATION IMAGES]

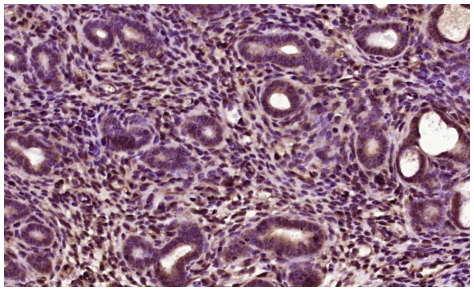


Figure 1. Paraformaldehyde-fixed, paraffin embedded (Mouse uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HIF1 beta) Polyclonal Antibody, Unconjugated (SL1407R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

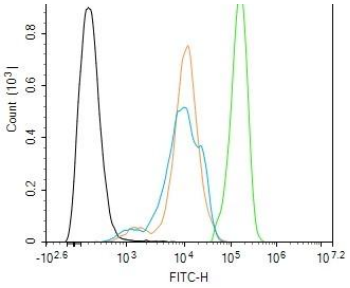


Figure 2. Blank control (black line) :HepG2. Primary Antibody (green line): Rabbit Anti-HIF1 beta antibody (SL1407R) Dilution:2ug/Test; Secondary Antibody (white blue line) : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Isotype control (orange line) : Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

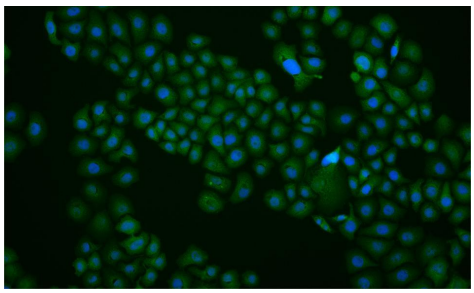


Figure 3. HepG2 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (HIF1 beta) polyclonal Antibody, Unconjugated (SL1407R) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei

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