

HIF-1 beta Rabbit mAb

Catalog No: #48904



Package Size: #48904-1 50ul #48904-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

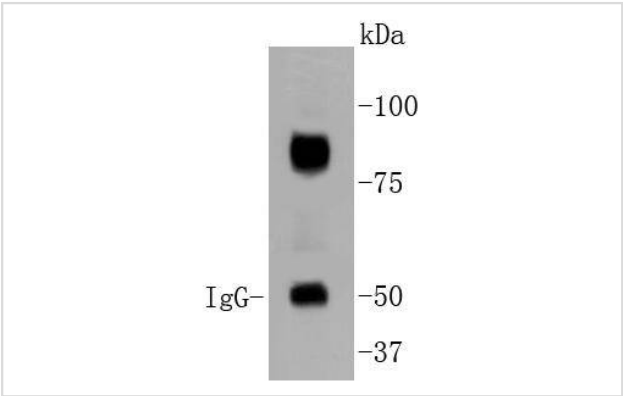
Description

Product Name	HIF-1 beta Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST05-25
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	arnT antibody ARNT protein antibody ARNT_HUMAN antibody Aryl hydrocarbon receptor nuclear translocator antibody bHLHe2 antibody Class E basic helix-loop-helix protein 2 antibody Dioxin receptor antibody Dioxin receptor nuclear translocator antibody Drnt antibody HIF 1 beta antibody HIF 1beta antibody HIF-1-beta antibody HIF1-beta antibody HIF1B antibody HIF1beta antibody Hypoxia Inducible Factor 1 antibody Hypoxia inducible factor 1 beta antibody Hypoxia-inducible factor 1-beta antibody nuclear translocator antibody Tango antibody
Accession No.	Swiss-Prot#:P27540
Calculated MW	87 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

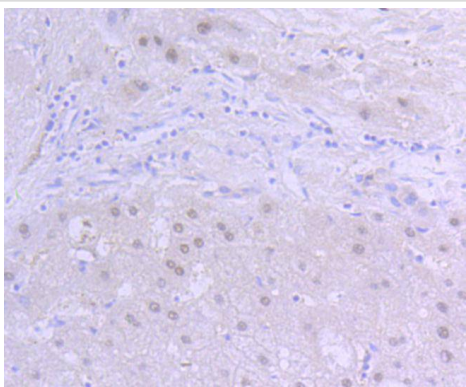
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200

Images



Western blot analysis of HIF-1 beta on human liver lysates using anti-HIF-1 beta antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-HIF-1 beta antibody. Counter stained with hematoxylin.

Background

AhR, Arnt 1, Arnt 2 and BMAL1 are members of a family of transcription factors that contain a basic helix-loop-helix motif and a common PAS domain motif. The aromatic (aryl) hydrocarbon receptor, AhR, is a ligand dependent transcription factor that interacts with specific DNA sequences termed xenobiotic responsive elements (XREs) to activate several genes including CYP1A1, glutathione S-transferase Ya subunit and DT-diaphorase. The Ah receptor nuclear translocator proteins (Arnt 1 or Arnt 2) are required for ligand-dependent nuclear translocation of the Ah receptor and are also necessary for Ah receptor binding to the XRE element. Arnt 2 (aryl hydrocarbon receptor nuclear translocator 2), also known as Hif-2b or bHLHe1, is a 712 amino acid nuclear protein that is exclusively expressed in adult brain and kidney. Containing a basic helix-loop-helix (bHLH) domain, a PAC (PAS-associated C-terminal) domain and two PAS (PER-ARNT-SIM) domains, Arnt 2 specifically recognizes the xenobiotic response element (XRE).

References

1. Bian Y., et al. An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome. J. Proteomics 96:253-262(2014).
2. Van Damme P., et al. N-terminal acetylome analyses and functional insights of the N-terminal acetyltransferase NatB. Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.