



HIF-1 β Rabbit mAb

Catalog No	YP-rAb-17185
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	ARNT
Protein Name	Aryl hydrocarbon receptor nuclear translocator
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	$\geq 90\%$
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	ARNT ; BHLHE2 ; Aryl hydrocarbon receptor nuclear translocator ; ARNT protein ; Class E basic helix-loop-helix protein 2 ; bHLHe2 ; Dioxin receptor, nuclear translocator ; Hypoxia-inducible factor 1-beta ; HIF-1-beta ; HIF1-beta
Observed Band	87kD
Calculated Molecular Weight	87kD
Cell Pathway	Nucleus.
Tissue Specificity	Aorta endothelial cell,Brain,Kidney,Thalamus,Uterus,
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 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.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,similarity:Contains 1 PAC (PAS-associated C-terminal) domain.,similarity:Contains 2 PAS (PER-ARNT-SIM) domains.,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.,

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Background

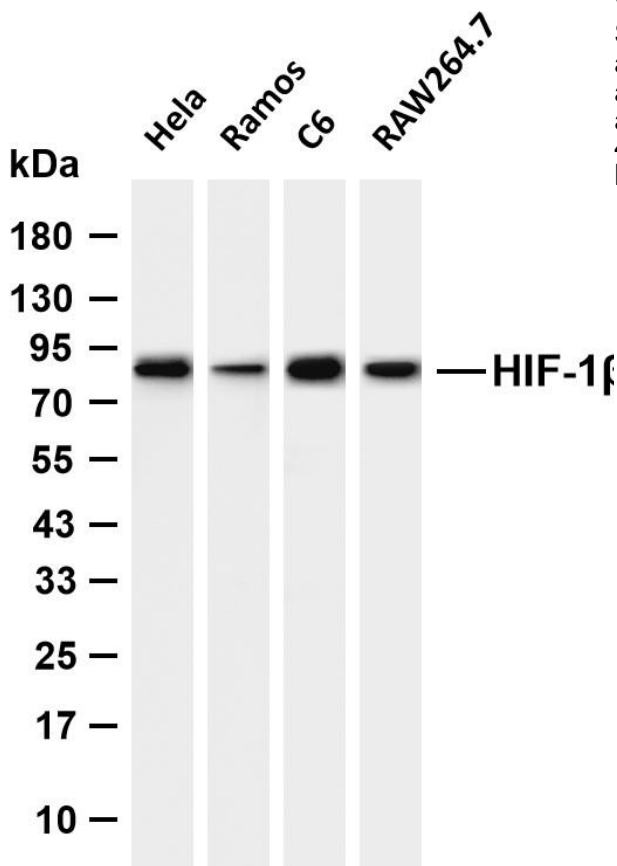
This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. The encoded protein binds to ligand-bound aryl hydrocarbon receptor and aids in the movement of this complex to the nucleus, where it promotes the expression of genes involved in xenobiotic metabolism. This protein is also a co-factor for transcriptional regulation by hypoxia-inducible factor 1. Chromosomal translocation of this locus with the ETV6 (ets variant 6) gene on chromosome 12 have been described in leukemias. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2013],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HIF-1 β antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Ramos Lane 3: C6 Lane 4: RAW264.7 Predicted band size: 87kDa Observed band size: 87kDa

