

HIF-1 β (4C5) Mouse mAb

CatalogNo: YM3584

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF

MW

- 87kD (Observed)

Recommended Dilution Ratios

WB 1:1000-2000

IHC 1:100-200

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Monoclonal

Clone Number

4C5

Immunogen Information

Immunogen

Recombinant Protein of HIF-1 β

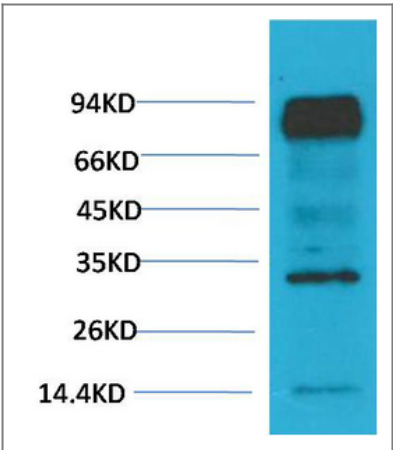
Specificity

HIF-1 β /ARNT protein detects endogenous levels of HIF-1 β /ARNT

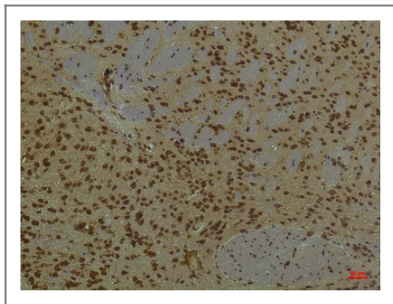
Target Information

Gene name	ARNT		
Protein Name	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)		
	Organism	Gene ID	UniProt ID
	Human	405 ;	P27540 ;
	Mouse		P53762 ;
	Rat		P41739 ;
Cellular Localization	Nucleus.		
Tissue specificity	Aorta endothelial cell,Brain,Kidney,Thalamus,Uterus,		
Function	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.,		

Validation Data



Western blot analysis of Mouse Brain Tissue with HIF-1 β/ARNT Mouse mAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Mouse Brain Tissue using HIF-1 β /ARNT Mouse mAb diluted at 1:200.

Contact information

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