

HIF-1 β Polyclonal Antibody
Catalog # AP70317**Specification**

HIF-1 β Polyclonal Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P27540
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

HIF-1 β Polyclonal Antibody - Additional Information**Gene ID** 405**Other Names**

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

HIF-1 β Polyclonal Antibody - Protein Information**Name** ARNT ([HGNC:700](#))**Synonyms** BHLHE2**Function**

Required for activity of the AHR. Upon ligand binding, AHR translocates into the nucleus, where it heterodimerizes with ARNT and induces transcription by binding to xenobiotic response elements (XRE). Not required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding (PubMed:34521881). The complex initiates transcription of genes involved in the regulation of a variety of biological processes, including angiogenesis, hematopoiesis, drug and lipid metabolism, cell motility and immune modulation (Probable). The heterodimer binds to core DNA sequence 5'- TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator of the adaptive response to hypoxia (By similarity). The heterodimer ARNT:AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response

element (DRE) of target gene promoters and activates their transcription (PubMed:28396409).

Cellular Location

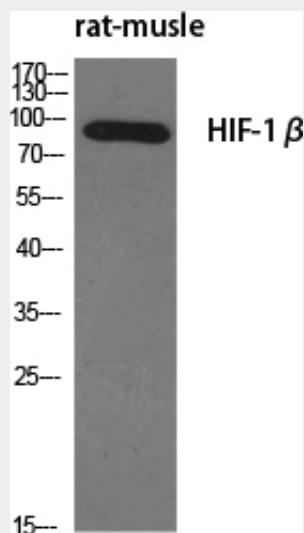
Nucleus.

HIF-1 β Polyclonal Antibody - Protocols

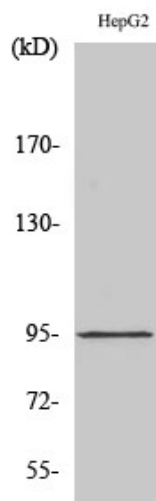
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

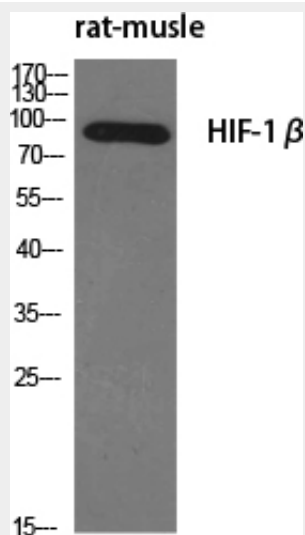
HIF-1 β Polyclonal Antibody - Images



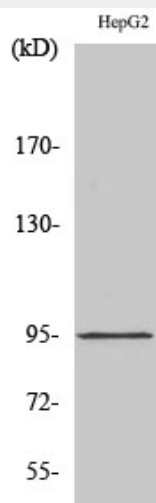
Western Blot analysis of various cells using HIF-1 β Polyclonal Antibody diluted at 1:500



Western Blot analysis of HepG2 cells using HIF-1 β Polyclonal Antibody diluted at 1:500



Western Blot analysis of various cells using HIF-1 β Polyclonal Antibody diluted at 1:500



Western Blot analysis of HepG2 cells using HIF-1 β Polyclonal Antibody diluted at 1:500

HIF-1 β Polyclonal Antibody - Background

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 binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator of the adaptive response to hypoxia (By similarity). The heterodimer ARNT:AHR binds to core DNA sequence 5'-TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription (PubMed:28396409).