

## Basic Information

<b>Product Name</b>	Anti-HIF-1 Beta/ARNT Antibody
<b>Gene Name</b>	ARNT
<b>Source</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Species Reactivity</b>	human
<b>Tested Application</b>	WB
<b>Contents</b>	500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.
<b>Immunogen</b>	E.coli-derived human HIF1 beta recombinant protein (Position: V416-E789). Human HIF1 beta shares 86% and 83% amino acid (aa) sequences identity with mouse and rat HIF1 beta, respectively.
<b>Concentration</b>	500 ug/ml
<b>Purification</b>	Immunogen affinity purified.
<b>Observed MW</b>	87 kDa
<b>Dilution Ratios</b>	Western blot (WB):1:500-2000

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

ARNT is also known as HIF1-beta or HIF1B. This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC domain. It is mapped to 1q21.3. 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. ARNT is a structural component of the XRE-binding form of the Ah receptor. It also functions in concert with RelB in a CD30-induced negative feedback mechanism.

## Reference

Anti-HIF-1 Beta/ARNT Antibody被引用在1文献中。

## Selected Validation Data

100KD —

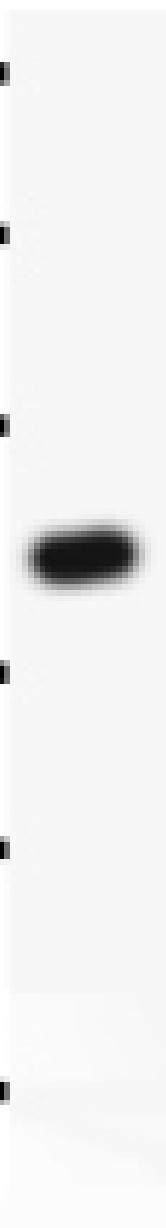
70KD —

55KD —

35KD —

25KD —

15KD —



Western blot analysis of HIF-1 Beta/ARNT using anti-HIF-1 Beta/ARNT antibody (PB0147).

Lane 1: recombinant Human HIF1 beta Protein 0.5ng.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-HIF-1 Beta/ARNT antigen affinity purified polyclonal antibody (PB0147) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HIF-1 Beta/ARNT at approximately 49 kDa.