

Anti-ARNT Antibody (9Z796)

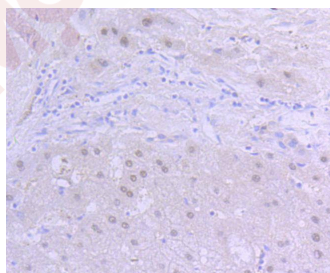
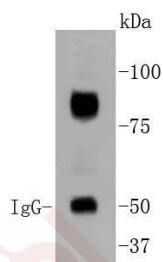
Product Details

Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 87 kDa.
Clone:	9Z796
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of HIF-1 beta on human liver lysates using anti-HIF-1 beta antibody at 1/1,000 dilution.
2. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-HIF-1 beta antibody. Counter stained with hematoxylin.



Application:	IHC, WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P27540

Synonyms: HIF1-b;HIF-1-b;ARNT

Research 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 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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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