
Product Name: KD-Validated HIF 1 Beta Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00186

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 86.6kDa

Antigen Information

Gene Name	ARNT
Alternative Names	ARNT; Aryl Hydrocarbon Receptor Nuclear Translocator ; BHLHe2; HIF-1beta; Class E Basic Helix-Loop-Helix Protein 2; Hypoxia Inducible Factor 1; Subunit Beta; Dioxin Receptor, Nuclear Translocator; HIF-1-Beta; HIF1-Beta; ARNT1; Hypoxia-Inducible Factor 1, Beta Subunit; Hypoxia-Inducible Factor 1-Beta; ARNT Protein; HIF1BETA; BHLHE2; HIF1B; TANGO
Gene ID	405.0
SwissProt ID	P27540
Immunogen	A synthesized peptide derived from human HIF-1 beta

Background

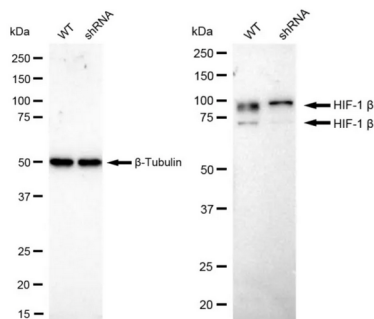
This gene encodes a protein containing a basic helix-loop-helix domain and two characteristic PAS domains along with a PAC

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]

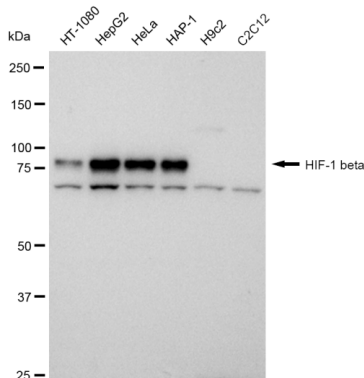
Research Area

Cardiovascular, Epigenetics and Nuclear Signaling, Cancer, Metabolism

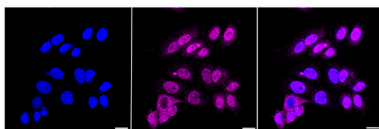
Image Data



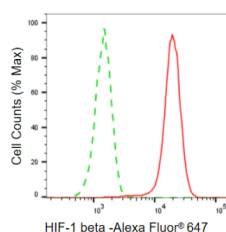
Western blotting analysis using HIF-1 beta antibody (KVA00186). HIF-1 beta expression in wild type (WT) and HIF-1 beta shRNA knockdown (KD) HT-1080 cells with 30 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with HIF-1 beta antibody (KVA00186, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using HIF 1 beta antibody (KVA00186). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with HIF 1 beta antibody (KVA00186, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with HIF-1 beta antibody (KVA00186, 1:1,000). Nuclei were stained blue with DAPI; HIF-1 beta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



Flow cytometric analysis of HIF-1 beta expression in HepG2 cells using HIF-1 beta antibody (KVA00186, 1:2,000). Green, isotype control; red, HIF-1 beta.