

**KD-Validated Anti-HIF 1  $\beta$  Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI2380****Specification****KD-Validated Anti-HIF 1  $\beta$  Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P27540</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 87 kDa; Observed, 87 kDa
Gene Name	KDa ARNT
Aliases	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 A synthesized peptide derived from human HIF-1 beta
Immunogen	

**KD-Validated Anti-HIF 1  $\beta$  Rabbit Monoclonal Antibody - Additional Information**

Gene ID 405

**Other Names**

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, ARNT ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=700](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=700) target="\_blank">HGNC:700</a>), BHLHE2

**KD-Validated Anti-HIF 1  $\beta$  Rabbit Monoclonal 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:<http://www.uniprot.org/citations/34521881> target="\_blank">34521881</a>). 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:<a href="http://www.uniprot.org/citations/28396409" target="\_blank">28396409</a>).

#### Cellular Location

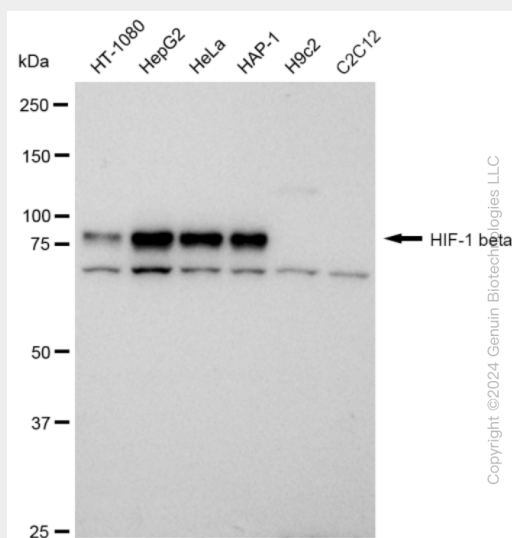
Nucleus.

#### KD-Validated Anti-HIF 1 $\beta$ Rabbit Monoclonal 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](#)

#### KD-Validated Anti-HIF 1 $\beta$ Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-HIF 1  $\beta$  antibody (Cat#AGI2380). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-HIF 1  $\beta$  antibody (Cat#AGI2380, 1:5,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.

