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KD-Validated Anti-HIF 1 β Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2380

Product Information

Application	WB, FC, ICC
Primary Accession	P27540
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB660
Calculated MW	86636
Gene Name	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
Immunogen	A synthesized peptide derived from human HIF-1 beta

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 (HGNC:700), BHLHE2

Protein Information

Name	ARNT (HGNC:700)
Synonyms	BHLHE2
Function	Transcription factor that functions as an obligate heterodimerization partner for several basic helix-loop-helix PER-ARNT- SIM (bHLH-PAS) proteins. Forms heterodimers with the aryl hydrocarbon receptor (AHR) to mediate the transcriptional response to xenobiotics by binding xenobiotic response elements (XREs) or dioxin response elements (DREs) in target gene promoters (PubMed:28396409, PubMed:34521881). Also heterodimerizes with hypoxia-inducible factor alpha subunits (HIF1A, EPAS1, NPAS1 or NPAS3) to form hypoxia-inducible transcription factors that bind hypoxia response elements (HREs) and activate genes involved in cellular and systemic responses to hypoxia, including angiogenesis, erythropoiesis, and metabolic adaptation (PubMed:16181639, PubMed:20699359). Plays a central role in environmental sensing and developmental and physiological regulation of

gene expression (PubMed:34521881).

Cellular Location Nucleus.

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