HIF-1beta/ARNT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HIF-1beta/ARNT, Polyclonal Antibody
Full Product Name	HIF-1beta/ARNT Rabbit pAb
Product Gene Name	anti-HIF-1beta/ARNT antibody
Product Synonym Names	HIF 1 beta; ARNT; Tango; hypoxia inducible factor 1 beta; Nrnt; Dioxin receptor; bHLH2e
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat, Mouse
Form/Format	PBS, pH 7.4, containing 0.02% Sodium Azide as Preservative and 50% Glycerol.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C.
OMIM	126110
3D Structure	ModBase 3D Structure for P27540
Immunogen	Recombinant Protein
Cellular Localization	Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HIF-1beta/ARNT antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-HIF-1beta/ARNT antibody	WB: 1:1,000-2,000 IHC: 1:200-500
Related Product Information for anti-HIF-1beta/ARNT antibody	MBS8542015 is an antibody targeting HIF-1beta/ARNT. Also known as HIF-1beta/ARNT Rabbit pAb. Reactive in Human, Rat, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-HIF-1beta/ARNT antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIF-1beta/ARNT. It may not necessarily be applicable to this product.

NCBI GI #	309747071
NCBI GeneID	405
NCBI Accession #	NP_001184254.1
UniProt Primary Accession #	P27540
UniProt Related Accession #	P27540

GenBank Nucleotide #	NP_001184254.1
NCBI Official Full Name	aryl hydrocarbon receptor nuclear translocator isoform 4
NCBI Official Synonym Full Names	aryl hydrocarbon receptor nuclear translocator
NCBI Official Symbol	ARNT
NCBI Official Synonym Symbols	HIF1B; TANGO; bHLHe2; HIF1BETA; HIF-1beta; HIF1-beta; HIF-1-beta
UniProt Protein Name	Aryl hydrocarbon receptor nuclear translocator
UniProt Synonym Protein Names	Class E basic helix-loop-helix protein 2; bHLHe2; Dioxin receptor, nuclear translocator; Hypoxia-inducible factor 1-beta
UniProt Gene Name	ARNT
UniProt Synonym Gene Names	BHLHE2; ARNT protein; bHLHe2; HIF-1-beta; HIF1-beta
UniProt Entry Name	ARNT_HUMAN
NCBI Protein Information	aryl hydrocarbon receptor nuclear translocator
NCBI Summary for HIF-1beta/ARNT	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]
UniProt Comments for HIF-1beta/ARNT	ARNT: a bHLH transcription factor that requires dimerization with another bHLH protein for efficient DNA binding. A binding partner for the Ah (dioxin) nuclear receptor. Required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding. The complex then initiates transcription of genes involved in the activation of PAH procarcinogens. A binding partner for HIF1A or HIF2A, transcription factors that regulates transcription from RNA polymerase II promoter in the adaptive response to hypoxia and oxidative stress. This complex activates target genes that limit oxygen consumption. HIF-1alpha may have nontranscriptional activities that inhibit DNA replication and cell proliferation when oxygen becomes scarce. Forms heterodimers with other bHLH proteins. Interacts with TACC3. Three isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor; Nuclear receptor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1q21 Cellular Component: nucleoplasm; cytoplasm; nucleus Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; aryl hydrocarbon receptor binding; protein heterodimerization activity; sequence-specific DNA binding; transcription coactivator activity; aryl hydrocarbon receptor activity; transcription factor binding; transcription factor activity Biological Process: embryonic placenta development; intracellular receptor-mediated signaling pathway; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; positive regulation of erythrocyte differentiation; mRNA transcription from RNA polymerase II promoter; positive regulation of vascular endothelial growth factor receptor signaling pathway; positive regulation of protein sumoylation; positive regulation of hormone biosynthetic process; positive regulation of glycolysis; response to hypoxia; positive regulation of endothelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; cell differentiation; regulation of transcription from RNA polymerase II promoter in response to oxidative stress
Research Articles on HIF-1beta/ARNT	**1.** When multipke myeloma patients were compared to controls, a protective role of CG genotype compared to CC in HIF-1beta (rs2228099) for MM development was observed (OR = 0.65; CI 0.45-0.95; p = 0.026).
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