

Rabbit HIF1 beta Monoclonal Antibody | anti-HIF1beta antibody

Recombinant HIF1 beta Monoclonal Antibody

CATALOG # AAA178852	HOST Rabbit	REACTIVITY Human, Mouse, Rat, Hamster	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

HIF1 beta; Monoclonal Antibody; Recombinant HIF1 beta Monoclonal Antibody; arnT; ARNT protein; ARNT; Aryl hydrocarbon receptor nuclear translocator; bHLHe2; Class E basic helix-loop-helix protein 2; Dioxin receptor; Dioxin receptor nuclear translocator; Drnt; HIF 1 beta; HIF 1beta; HIF-1-beta; HIF1-beta; HIF1B; HIF1beta; Hypoxia Inducible Factor 1; Hypoxia inducible factor 1 beta; Hypoxia-inducible factor 1-beta; nuclear translocator; Tango; anti-HIF1beta antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Hamster
Clonality	Monoclonal
Isotype	IgG
Clone Number	R05-3B2
Purity/Purification	Affinity Purified
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% protective protein
Concentration	300ug/mL (varies by lot)
Applicable Applications for anti-HIF1beta antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant protein of human HIF1 beta
Research Area	Cancer, Cardiovascular, Epigenetics and Nuclear Signaling, Metabolism
Preparation and Storage	Storage: -20 degree C/One year. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of HIF1 beta in paraffin-embedded Human lung cancer tissue using HIF1 beta Rabbit mAb at dilution 1:50



WB (Western Blot)

Western blot detection of HIF1 beta in HeLa, CHO-K1, C6, Ramos using HIF1 beta Rabbit mAb(1:1000 diluted)

ADDITIONAL INFORMATION

Related Product Information for anti-HIF1beta antibody	Hypoxia-inducible factor 1 (HIF1) is heterodimeric transcription factor that plays a critical role in the cellular response to hypoxia (1). The HIF1 complex consists of two subunits, HIF-1alpha and HIF-1beta, which are basic helix-loop-helix proteins of the PAS (Per, ARNT, Sim) family (2). HIF1 regulates the transcription of a broad range of genes that facilitate responses to the hypoxic environment, including genes regulating angiogenesis, erythropoiesis, cell cycle, metabolism and apoptosis. The widely expressed HIF-1alpha is typically degraded rapidly in normoxic cells by the ubiquitin/proteasomal pathway. Under normoxic conditions, HIF-1alpha is proline hydroxylated leading to a conformational change that promotes binding to the von Hippel Lindau protein (VHL) E3 ligase complex; ubiquitination and proteasomal degradation follows (3,4). Both hypoxic conditions and chemical hydroxylase inhibitors (such as desferrioxamine and cobalt) inhibit HIF-1alpha degradation and lead to its stabilization. In addition, HIF-1alpha can be induced in an oxygen-independent manner by various cytokines through the PI3K-AKT-mTOR pathway (5-7).HIF-1beta is also known as AhR nuclear translocator (ARNT) due to its ability to partner with the aryl hydrocarbon receptor (AhR) to form a heterodimeric transcription factor complex (8). Together with AhR, HIF-1beta plays an important role in xenobiotics metabolism (8).
Product Categories/Family for anti-HIF1beta antibody	Antibodies; Primary Antibodies; Recombinant Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	309747071
NCBI GeneID	405
NCBI Accession #	NP_001184254.1
NCBI GenBank Nucleotide #	NM_001197325.1
UniProt Accession #	P27540; Q5QP39; Q8NDC7; C4AMA1
Molecular Weight	86,636 Da
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
NCBI Protein Information	aryl hydrocarbon receptor nuclear translocator; dioxin receptor, nuclear translocator; class E basic helix-loop-helix protein 2; hypoxia-inducible factor 1, beta subunit
UniProt Protein Name	Aryl hydrocarbon receptor nuclear translocator
UniProt Gene Name	ARNT
UniProt Synonym Gene Names	BHLHE2; ARNT protein; bHLHe2; HIF-1-beta; HIF1-beta
UniProt Entry Name	ARNT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hif1-beta-antibody-clone-r05-3b2-immunohistochemistry-western-blot-elisa/178852>