Rabbit anti-Human HIF-1 alpha Polyclonal Antibody | anti-HIF-1alpha antibody

HIF-1 alpha antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59909	**Rabbit**	**Human**	**Western Blot, Chromatin Immunoprecipitation, Immunoprecipitation, Chromatin Immunoprecipitation, Immunoprecipitation**

PRODUCT SYNONYMS

HIF-1 alpha; Polyclonal Antibody; HIF-1 alpha antibody (pAb); HIF1A; HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA; anti-HIF-1alpha antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Form/Format	Rabbit serum containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-HIF-1alpha antibody	WB (Western Blot), ChIP (Chromatin immunoprecipitation), ChIP (Chromatin immunoprecipitation)
Immunogen	This HIF-1 alpha antibody was raised against a synthetic peptide corresponding to the C-terminal region of human HIF-1 alpha.
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

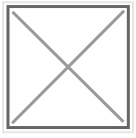
IMAGES



WB (Western Blot)
HIF-1 alpha antibody (pAb) tested by Western blot. Detection of HIF-1 alpha by Western blot analysis with 20 ug COS-7 nuclear extract either untreated (lane 1) or treated with CoCl2 (lane 2).



ChIP (Chromatin Immunoprecipitation)
HIF-1 alpha antibody (pAb) tested by ChIP. ChIP was performed using the ChIP-IT High Sensitivity Kit with 5 ul of HIF-1 alpha antibody and 25 ug of chromatin from hypoxic Huh7 cells. ChIP DNA was used in qPCR with the control primer pairs or gene-specific primer pairs as indicated. Data are presented as Binding Events Detected per 1000 Cells using Epigenetic Services normalization scheme which accounts for primer efficiency and the amount of chromatin used in the ChIP reaction.



ChIP (Chromatin Immunoprecipitation)
HIF-1 alpha antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 5 ul of HIF-1 alpha antibody and 25 ug of chromatin from hypoxic Huh7 cells. ChIP DNA was sequenced on the Illumina HiSeq and 19 million sequence tags were mapped to identify Hif-1 alpha binding sites across the genome. The images show binding in the promoters of Hif1a target genes that regulate metabolism.

ADDITIONAL INFORMATION

Related Product Information for anti-HIF-1alpha antibody	Short Description: Our HIF-1 alpha antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq and Western blot; it has been shown to react with Human samples. Background: Hypoxia-inducible factor-1 (HIF1) is a transcription factor involved in the regulation of oxygen homeostasis. It regulates the physiological responses to low oxygen levels (hypoxia) and the pathophysiology of heart attack, cancer, stroke and chronic lung disease. HIF-1 is a heterodimeric protein that consists of two subunits, HIF-1 alpha and HIF-1 beta (also known as ARNT1, the aryl hydrocarbon nuclear translocator). While HIF-1 beta is constitutively expressed, the expression of HIF-1 alpha is induced by oxygen concentrations below 6%. Heterodimerization is required to bind the hypoxia response element (HRE).
Product Categories/Family for anti-HIF-1alpha antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504385
NCBI GeneID	3091
NCBI Accession #	NP_001521; AB_2614934
NCBI GenBank Nucleotide #	NM_001530.3
UniProt Accession #	Q16665; Q53XP6; Q96PT9; Q9UPB1; C0LZJ3
Molecular Weight	32.8kDa (298aa), confirmed by MALDI-TOF. (Molecular weight on SDS-PAGE will appear higher)
NCBI Official Full Name	hypoxia-inducible factor 1-alpha isoform 1
NCBI Official Synonym Full Names	hypoxia inducible factor 1 alpha subunit
NCBI Official Symbol	HIF1A
NCBI Official Synonym Symbols	HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-ALPHA; HIF-1-alpha
NCBI Protein Information	hypoxia-inducible factor 1-alpha
UniProt Protein Name	Hypoxia-inducible factor 1-alpha
UniProt Gene Name	**HIF1A**
UniProt Synonym Gene Names	BHLHE78; MOP1; PASD8; HIF-1-alpha; HIF1-alpha; bHLHe78
UniProt Entry Name	HIF1A_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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