

Rabbit anti-Human, Mouse HIF1Alpha Polyclonal Antibody | anti-HIF1A antibody

HIF1Alpha Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284799	Rabbit	Human, Mouse	Immunofluorescence, Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

HIF1Alpha; Polyclonal Antibody; HIF1Alpha Antibody (C-term); Hypoxia-inducible factor 1-alpha; HIF-1-alpha; HIF1-alpha; ARNT-interacting protein; Basic-helix-loop-helix-PAS protein MOP1; Class E basic helix-loop-helix protein 78; bHLHe78; Member of PAS protein 1; PAS domain-containing protein 8; HIF1A; BHLHE78; MOP1; PASD8; anti-HIF1A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HIF1Alpha antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 728-757 amino acids from the C-terminal region of human HIF1Alpha.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	728-757
Sequence Length	850
Applicable Applications for anti-HIF1A antibody	IF (Immunofluorescence), WB (Western Blot), IHC (Immunohistochemistry), ELISA
Cellular Location	Cytoplasm. Nucleus. Nucleus speckle {ECO:0000250 UniProtKB:Q61221}. Note=Colocalizes with HIF3A in the nucleus and speckles (By similarity). Cytoplasmic in normoxia, nuclear translocation in response to hypoxia (PubMed:9822602) {ECO:0000250 UniProtKB:Q61221, ECO:0000269 PubMed:9822602}
Tissue Location	Expressed in most tissues with highest levels in kidney and heart. Overexpressed in the majority of common human cancers and their metastases, due to the presence of intratumoral hypoxia and as a result of mutations in genes encoding oncoproteins and tumor suppressors. A higher level expression seen in pituitary tumors as compared to the pituitary gland.
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with HIF1Alpha antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohis



IF (Immunofluorescence)
Confocal immunofluorescent analysis of HIF1Alpha Antibody (C-term) with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).DAPI was used to stain the cell nuclear (blue).



WB (Western Blot)
Western blot analysis of HIF1Alpha Antibody (C-term) in mouse cerebellum tissue lysates (35ug/lane). HIF1Alpha (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of HIF1Alpha Antibody (C-term) in MDA-MB231 cell line lysates (35ug/lane). HIF1Alpha (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-HIF1A antibody	Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced oxygen tension that plays an essential role in cellular and systemic homeostatic responses to hypoxia. HIF1 is a heterodimer composed of an alpha subunit and a beta subunit. The beta subunit has been identified as the aryl hydrocarbon receptor nuclear translocator (ARNT).
Product Categories/Family for anti-HIF1A antibody	Cancer; Cardiovascular; Metabolism
References	Favaro,E., Am. J. Pathol. 173 (4), 1186-1201 (2008) Alexandru,G., Cell 134 (5), 804-816 (2008) Linke,S., J. Biol. Chem. 279 (14), 14391-14397 (2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	340545531
NCBI GeneID	3091
NCBI Accession #	NP_001230013.1; NP_001521.1; NP_851397.1
NCBI GenBank Nucleotide #	NM_001243084.1
UniProt Accession #	Q16665; Q53XP6; Q96PT9; Q9UPB1; C0LZJ3
NCBI Official Full Name	hypoxia-inducible factor 1-alpha isoform 3
NCBI Official Synonym Full Names	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
NCBI Official Symbol	HIF1A
NCBI Official Synonym Symbols	HIF1; MOP1; PASD8; HIF-1A; bHLHe78; HIF-1alpha; HIF1-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.

