

Rabbit HIF1A Polyclonal Antibody | anti-HIF1A antibody

HIF1A Antibody (N-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289667	Rabbit	Human, hamster (Predicted Reactivity: Bovine)	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

HIF1A; Polyclonal Antibody; HIF1A Antibody (N-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; BHLHE78; MOP1; PASD8; anti-HIF1A antibody

PRODUCT SPECIFICATIONS

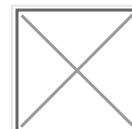
Host	Rabbit
Reactivity	Human, hamster (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This HIF1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HIF1A.
Purity/Purification	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.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	1-30
Sequence Length	850
Applicable Applications for anti-HIF1A antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with HIF1A Antibody (N-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HIF1A primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). HIF1A immunoreactivity is localized to cytoplasm and nucleus significantly.



IHC (Immunohistochemistry)

HIF1A Antibody (N-term) IHC analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the HIF1A Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of HIF1A Antibody (N-term) in CHO cell line lysates (35ug/lane). HIF1A (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). This protein encodes the alpha subunit of HIF-1. Overexpression of a natural antisense transcript (aHIF) of this gene has been shown to be associated with nonpapillary renal carcinomas.
Product Categories/Family for anti-HIF1A antibody	Cancer; Cardiovascular; Metabolism
References	Lee, M.N., et al. J. Natl. Cancer Inst. 102(6):426-442(2010) Mayer, A., et al. Adv. Exp. Med. Biol. 662, 399-405 (2010) Brouwer, E., et al. Clin. Exp. Rheumatol. 27(6):945-951(2009) Cho, H., et al. FEBS Lett. 581(8):1542-1548(2007)

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
Molecular Weight	92670
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.