

HIF1A Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP4776A

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q16665
Other Accession	Q9XTA5
Reactivity	Human, Hamster
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11679
Antigen Region	1-30

Additional Information

Other Names	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
Target/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.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
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.
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.
Precautions	HIF1A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

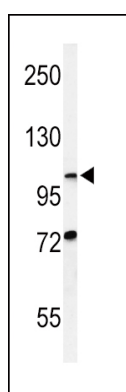
Hypoxia-inducible factor-1 (HIF1) is a transcription factor found in mammalian cells cultured under reduced

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.

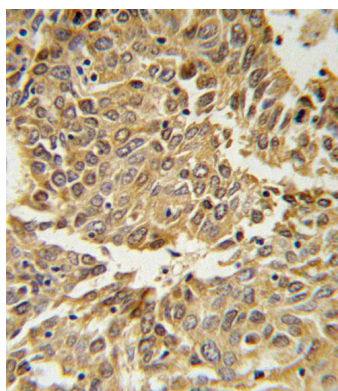
References

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)

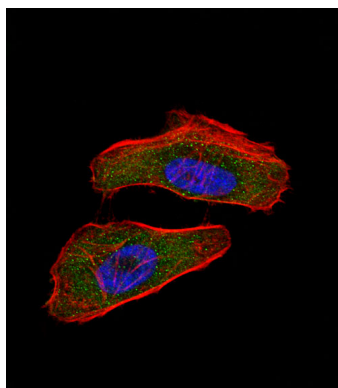
Images



Western blot analysis of HIF1A Antibody (N-term) (Cat. #AP4776a) in CHO cell line lysates (35ug/lane). HIF1A (arrow) was detected using the purified Pab.



HIF1A Antibody (N-term)(Cat. #AP4776a) 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.



Fluorescent confocal image of HeLa cell stained with HIF1A Antibody (N-term)(Cat#AP4776a). 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°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). HIF1A immunoreactivity is localized to cytoplasm and nucleus significantly.

Citations

- [Metformin inhibits proliferation and enhances chemosensitivity of intrahepatic cholangiocarcinoma cell lines.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.