

HIF1a antibody

Product Information

Catalog No.:	FNab10340
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Functions as a master transcriptional regulator of the adaptive response to hypoxia. Under hypoxic conditions, activates the transcription of over 40 genes, including erythropoietin, glucose transporters, glycolytic enzymes, vascular endothelial growth factor, HILPDA, and other genes whose protein products increase oxygen delivery or facilitate metabolic adaptation to hypoxia. Plays an essential role in embryonic vascularization, tumor angiogenesis and pathophysiology of ischemic disease. Binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element(HRE) of target gene promoters. Activation requires recruitment of transcriptional coactivators such as CREBPB and EP300. Activity is enhanced by interaction with both, NCOA1 or NCOA2. Interaction with redox regulatory protein APEX seems to activate CTAD and potentiates activation by NCOA1 and CREBBP. Involved in the axonal distribution and transport of mitochondria in neurons during hypoxia.

Immunogen information

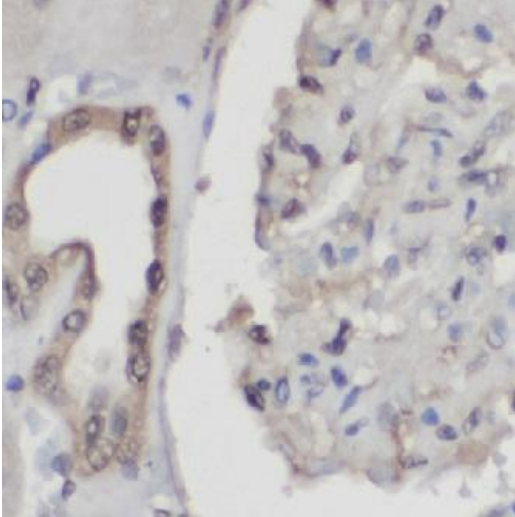
Immunogen:	hypoxia inducible factor 1, alpha subunit(basic helix-loop-helix transcription factor)
Synonyms:	BHLHE78, MOP1, PASD8
Observed MW:	120 kDa
Uniprot ID :	Q16665

Application

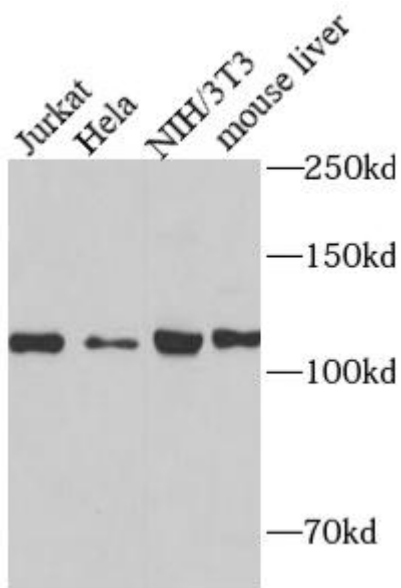
Reactivity:	Human, Mouse
Tested Application:	ELISA, IHC, WB, IF

Recommended dilution: WB: 1:500-1:2000; IHC: 1:50-1:200; IF: 1:50-1:200

Image:



Immunohistochemistry of paraffin-embedded human kidney using FNab10340(HIF1A antibody) at dilution of 1:100



Various lysates were subjected to SDS PAGE followed by western blot with FNab10340(HIF1a Antibody) at dilution of 1:1000