

For Research Use Only

# HIF2 $\alpha$ /EPAS1 Polyclonal antibody

Catalog Number: 26422-1-AP

19 Publications



## Basic Information

Catalog Number:

26422-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24886

GenBank Accession Number:

BC051338

GeneID (NCBI):

2034

UNIPROT ID:

Q99814

Full Name:

endothelial PAS domain protein 1

Calculated MW:

96 kDa

Observed MW:

100-120 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF, CoIP

Species Specificity:

human

Cited Species:

human, mouse

Positive Controls:

WB : Cobalt Chloride treated HeLa cells,

## Background Information

HIF2A, also named as EPAS1, is a 870 amino acid protein, which is expressed in most tissues, with highest levels in placenta, lung and heart. HIF2A colocalizes with HIF3A in the nucleus and speckles. HIF2A as a transcription factor involves in the induction of oxygen regulated genes. HIF2A binds to core DNA sequence 5'-[AG]CGTG-3' within the hypoxia response element (HRE) of target gene promoters. HIF2A regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. HIF2A may also play a role in the formation of the endothelium that gives rise to the blood brain barrier. The calculated molecular weight of HIF2A is 96 kDa, but in normoxia, HIF2A is probably hydroxylated on Pro-405 and Pro-531 by EGLN1/PHD1, EGLN2/PHD2 and/or EGLN3/PHD3. The hydroxylated prolines promote interaction with VHL, initiating rapid ubiquitination and subsequent proteasomal degradation. Under hypoxia, proline hydroxylation is impaired and ubiquitination is attenuated, resulting in stabilization. The modified HIF2A is about 100-120 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hsing-Hua Chao	36127332	Cell Death Dis	WB
Zhichuan Zhu	36445063	Adv Sci (Weinh)	WB
Xiao-Peng Tian	31037150	Theranostics	WB, IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

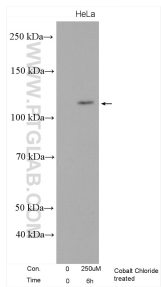
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## Selected Validation Data



Cobalt Chloride treated HeLa cells were subjected to SDS PAGE followed by western blot with 26422-1-AP (EPAS1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.