

For Research Use Only

HIF2 α /EPAS1 Polyclonal antibody

Catalog Number: 26422-1-AP

10 Publications



Basic Information

Catalog Number: 26422-1-AP	GenBank Accession Number: BC051338	Purification Method: Antigen affinity purification
Size: 350 μ g/ml	GeneID (NCBI): 2034	Recommended Dilutions: WB 1:500-1:3000
Source: Rabbit	UNIPROT ID: Q99814	
Isotype: IgG	Full Name: endothelial PAS domain protein 1	
Immunogen Catalog Number: AG24886	Calculated MW: 96 kDa	
	Observed MW: 100-120 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Cobalt Chloride treated HeLa cells,
Cited Applications: WB, IF, IHC, CoIP	
Species Specificity: human	
Cited Species: human, mouse	

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

For technical support and original validation data for this product please contact:

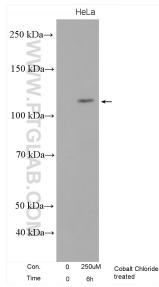
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Selected Validation Data



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.