For Research Use Only

PHD2/EGLN1 Polyclonal antibody

Catalog Number:20368-1-AP 3 Publications

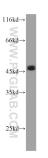


Basic Information	Catalog Number: 20368-1-AP	GenBank Accession Number: NM_022051		Purification Method: Antigen affinity purification	
	Concentration: 700 ug/ml	Genel D (NCBI 54583):	Recommended Dilutions: WB 1:500-1:1000	
	Source: UNIPROT ID: Rabbit Q9GZT9			IHC 1:100-1:400 IF/ICC 1:50-1:500	
	Isotype:Full Name:IgGegl nine homolog 1 (C. elegans)				
	Calculated MW: 46 kDa Observed MW: 46 kDa, 36 kDa		W:		
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA		Positive Controls:		
	Cited Applications:			WB : HEK-293 cells, mouse pancreas tissue, HepG2 cells	
	WB, IHC			HC : human pancreas tissue, human heart tissue	
	Species Specificity: IF/ICC : HepG2 cells,				
	Cited Species: human, mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
Background Information	EGLN1, also named as PHD2, SM-20, HPH-2 and HIF-PH2, catalyzes the post-translational formation of 4- hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro- 564', and HIF-2 alpha. EGLN1 functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Defec in EGLN1 are the cause of erythrocytosis familial type 3 (ECYT3). EGLN1 has 3 isoforms with MW of 46 kDa, 44 kDa and 36 kDa produced by alternative splicing. It mainly localizes in cytoplasm and can shuttle between the nucleu and cytoplasm (PubMed:19631610). The antibody is specific to EGLN1.				
5	in EGLN1 are the cause of er and 36 kDa produced by alte	ernative splicing. It mair	nly localizes in cytopl	as 3 isoforms with MW of 46 kDa, 44 kD	
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Notable Publications	in EGLN1 are the cause of er and 36 kDa produced by alte and cytoplasm (PubMed:196 Author Dong Zhao	Provide a splicing. It main 331610). The antibody is Pubmed ID 35169254	nly localizes in cytopl specific to EGLN1. Journal Oncogene	as 3 isoforms with MW of 46 kDa, 44 kD asm and can shuttle between the nucle Application WB	

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

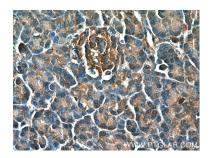
Selected Validation Data



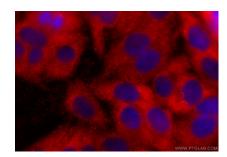
HEK-293 cells were subjected to SDS PAGE followed by western blot with 20368-1-AP (PHD2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human pancreas tissue slide using 20368-1-AP (PHD2 antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human pancreas tissue slide using 20368-1-AP (PHD2 antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PHD2/EGLN1 antibody (20368-1-AP) at dilution of 1:200 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).