For Research Use Only

PHD2/EGLN1 Monoclonal antibody

Catalog Number:66589-1-lg Featured Product 5 Publications

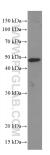
oroteintech Antibodies | ELISA kits | Proteins www.ptglab.com

Basic Information	Catalog Number: 66589-1-lg	GenBank Accession Number: NM_022051		Purification Method: Protein G purification	
	Concentration: 1900 ug/ml	Genel D (N0 54583	CBI):	CloneNo.: 1A2F1	
	Source:	UNIPROT ID:		Recommended Dilutions:	
	Mouse	Q9GZT9		WB 1:1000-1:6000 IHC 1:150-1:600 IF/ICC 1:400-1:1600	
	lsotype: lgG1	Full Name: egl nine ho	omolog 1 (C. elegans)		
		Calculated 46 kDa	MW:		
			Observed MW: 46 kDa, 44 kDa, 36 kDa		
Applications	Tested Applications: WB, IHC, IF/ICC, ELISA		Positive Controls:		
	Cited Applications: WB : mouse		e brain tissue, SH-SY5Y cells, pig brain <-293 cells		
	WB, IF IHC : humar			n testis tissue, human kidney tissue	
	Species Specificity: IF/ICC : HEK-293 cells,			(-293 cells,	
	Cited Species:				
	mouse				
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0				
	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. Defect 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.				
Background Information	hydroxyproline in hypoxia-in 564', and HIF-2 alpha. EGLN1 through the hydroxylation fo in EGLN1 are the cause of eny and 36 kDa produced by alte	nducible factor (HIF) functions as a cellul r proteasomal degra rthrocytosis familial rnative splicing. It m	alpha proteins. It hydrov ar oxygen sensor and, u dation via the von Hippe type 3 (ECYT3). EGLN1 h ainly localizes in cytopl	sylates HIF-1 alpha at 'Pro-402' and 'Pro nder normoxic conditions, targets HIF el-Lindau ubiquitination complex. Defec as 3 isoforms with MW of 46 kDa, 44 kD	
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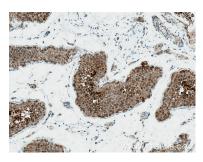
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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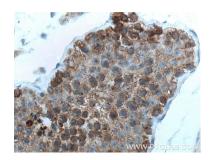
Selected Validation Data



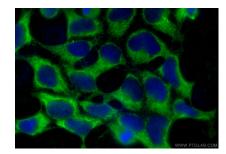
mouse brain tissue were subjected to SDS PAGE followed by western blot with 66589-1-1g (EGLN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 66589-1-Ig (EGLN1 antibody) at dilution of 1:300 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 66589-1-Ig (EGLN1 antibody) at dilution of 1:300 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using PHD2/EGLN1 antibody (66589-1-Ig, Clone: 1A2F1) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).