

For Research Use Only

# PHD2/EGLN1 Polyclonal antibody

Catalog Number: 19886-1-AP

Featured Product

11 Publications



## Basic Information

<b>Catalog Number:</b> 19886-1-AP	<b>GenBank Accession Number:</b> BC005369	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54583	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> egl nine homolog 1 (C. elegans)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 426 aa, 46 kDa	
<b>Immunogen Catalog Number:</b> AG13706	<b>Observed MW:</b> 46 kDa	

## Applications

**Tested Applications:**  
IHC, IP, WB, ELISA

**Cited Applications:**  
IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HCT 116 cells, mouse kidney tissue, rat heart tissue, HEK-293 cells, HEK-293T cells, HepG2 cells

**IP:** HEK-293 cells,

**IHC:** human liver cancer tissue,

## Background Information

EGLN1(Egl nine homolog 1) is also named as HIF-PH2,HPH-2,PHD2.It is the most important isozyme under normoxia and, through regulating the stability of HIF1, involved in various hypoxia-influenced processes such as angiogenesis in retinal and cardiac functionality. EGLN1 plays a critical role in regulating HIF levels in EPO-producing cells in humans(PMID:16407130).Defects in EGLN1 are the cause of familial erythrocytosis type 3 (ECYT3).This antibody is specific to EGLN1.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chenzhong Wang	36162153	Tissue Cell	IHC
Haixu Xu	35589690	Cell Death Dis	WB
Deng Guan	33713969	J Inorg Biochem	WB

## 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

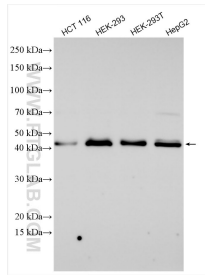
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

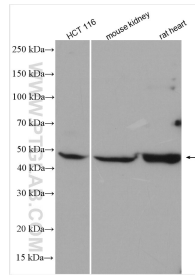
E: proteintech@ptglab.com  
W: ptglab.com

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

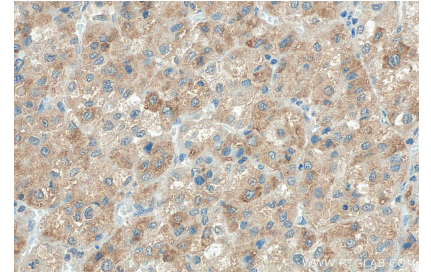
## Selected Validation Data



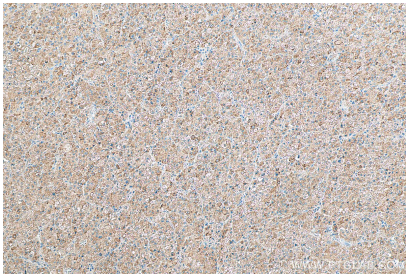
Various lysates were subjected to SDS PAGE followed by western blot with 19886-1-AP (PHD2/EGLN1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



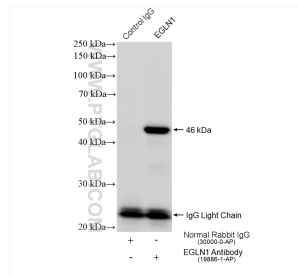
Various lysates were subjected to SDS PAGE followed by western blot with 19886-1-AP (PHD2/EGLN1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 19886-1-AP (PHD2/EGLN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 19886-1-AP (PHD2/EGLN1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PHD2/EGLN1(IP:19886-1-AP, 4ug; Detection:19886-1-AP 1:5000) with HEK-293 cells lysate 1280 ug.