

For Research Use Only

# EGLN3/PHD3 Polyclonal antibody

Catalog Number: 18325-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

18325-1-AP

### Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13197

### GenBank Accession Number:

BC010992

### GeneID (NCBI):

112399

### UNIPROT ID:

Q9H6Z9

### Full Name:

egl nine homolog 3 (C. elegans)

### Calculated MW:

27 kDa

### Observed MW:

27-30 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IP

### Species Specificity:

human

### 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**

### Positive Controls:

**WB:** A375 cells, HEK-293T cells, HEK-293 cells, HT-1080 cells, human placenta tissue

**IP:** A375 cells,

**IHC:** human brain tissue, human heart tissue

## Background Information

EGLN3, also named as HPH-1, HIF-PH3, HPH-3 and PHD3, is a cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. It is a regulator of cardiomyocyte and neuronal apoptosis. EGLN3 can be a prognostic marker for gastric cancer.

## Notable Publications

Author	Pubmed ID	Journal	Application
Haixu Xu	35589690	Cell Death Dis	WB
Zhirui Zeng	35549979	Bioengineered	WB
Tianli Chen	33601056	Mol Ther	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

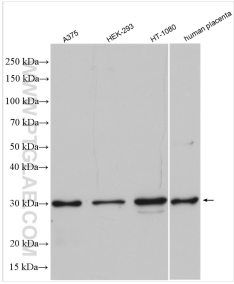
For technical support and original validation data for this product please contact:

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

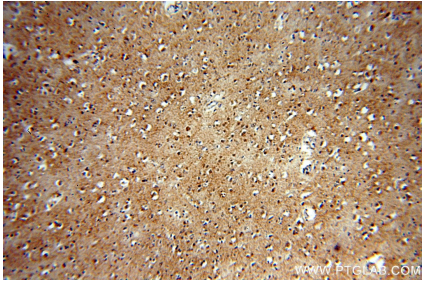
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

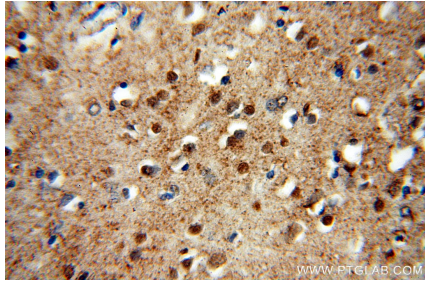
Selected Validation Data



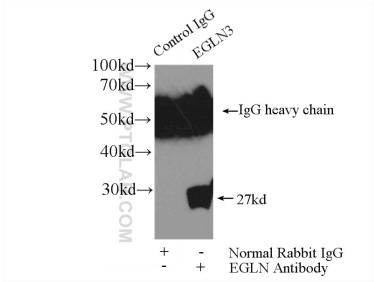
Various lysates were subjected to SDS PAGE followed by western blot with 18325-1-AP (EGLN3/PHD3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



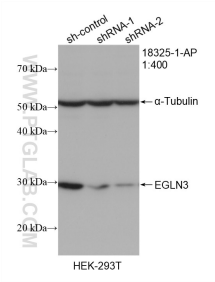
Immunohistochemical analysis of paraffin-embedded human brain using 18325-1-AP (EGLN3/PHD3 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 18325-1-AP (PHD3 antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-EGLN3/PHD3 (IP:18325-1-AP, 4ug; Detection:18325-1-AP 1:500) with A375 cells lysate 3600ug.



WB result of EGLN3/PHD3 antibody (18325-1-AP; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-EGLN3/PHD3 transfected HEK-293T cells.