

For Research Use Only

# EGLN3/PHD3 Polyclonal antibody

Catalog Number: 18325-1-AP

Featured Product

10 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

**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 ug for 1.0-3.0 mg of total protein lysate  
IHC 1:20-1:200

## Applications

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

**Cited Applications:**  
IHC, IP, WB

**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
Tianwei Chen	36453019	Mol Oncol	WB
Haixu Xu	35589690	Cell Death Dis	WB
Zhirui Zeng	35549979	Bioengineered	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

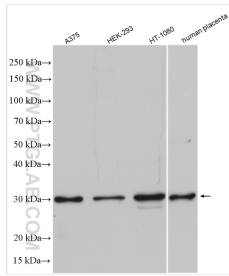
For technical support and original validation data for this product please contact:

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

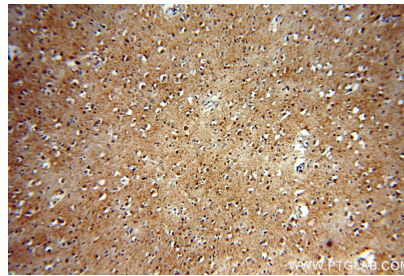
E: proteintech@ptglab.com  
W: ptglab.com

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

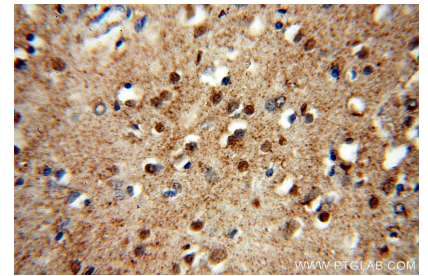
## Selected Validation Data



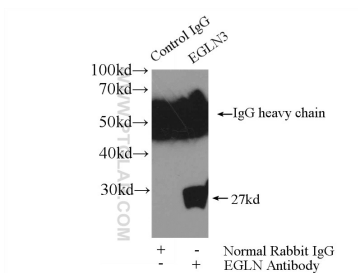
Various lysates were subjected to SDS PAGE followed by western blot with 18325-1-AP (EGLN3/PHD3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



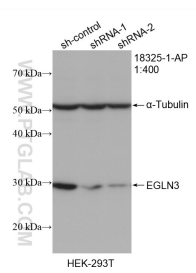
Immunohistochemical analysis of paraffin-embedded human brain using 18325-1-AP (EGLN3/PHD3 antibody) at dilution of 1:50 (under 10x lens).



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.