

For Research Use Only

EGLN3/PHD3 Polyclonal antibody

Catalog Number: 18325-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

18325-1-AP

Concentration:

500 µg/ml

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

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

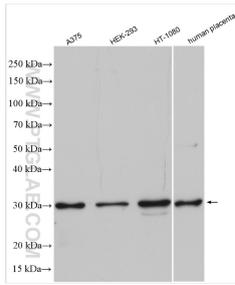
T: 4006900926

E: Proteintech-CN@ptglab.com

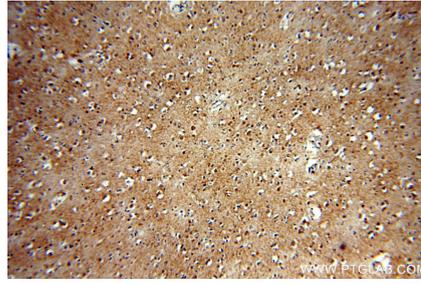
W: ptgcn.com

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

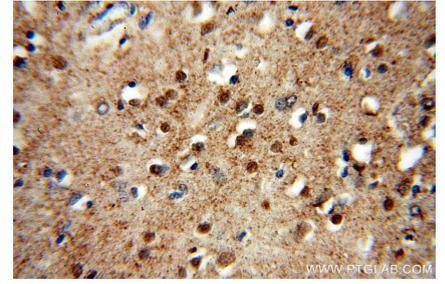
Selected Validation Data



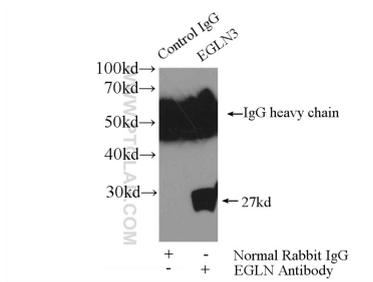
Various lysates were subjected to SDS PAGE followed by western blot with 18325-1-AP (EGLN3/PHD3 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



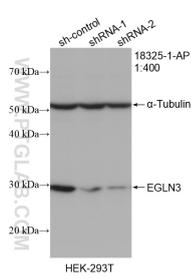
Immunohistochemical analysis of paraffin-embedded human brain using 18325-1-AP (EGLN3/PHD3 antibody) at dilution of 1:50 (under 10x lens).



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.