

For Research Use Only

EGLN3 Recombinant antibody

Catalog Number: 82377-1-RR



Basic Information

Catalog Number:

82377-1-RR

Concentration:

1000 ug/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:

Protein A purification

CloneNo.:

1019

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:125-1:500

FC (Intra): 0.25 ug per 10⁶ cells in a
100 µl suspension

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : mouse heart tissue, mouse kidney tissue, rat
kidney tissue

IF/ICC : HepG2 cells, U2OS cells

FC (Intra) : U2OS cells,

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.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

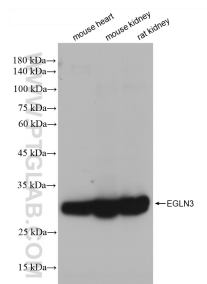
T: 4006900926

E: Proteintech-CN@ptglab.com

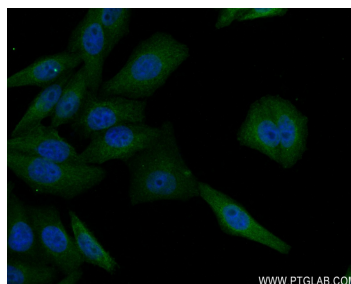
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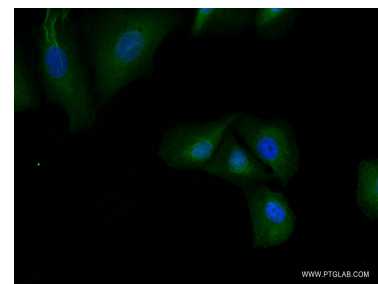
Selected Validation Data



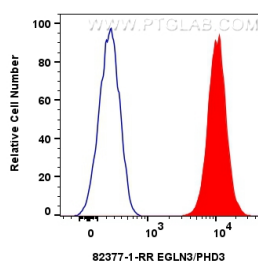
Various lysates were subjected to SDS PAGE followed by western blot with 82377-1-RR (EGLN3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using EGLN3/PHD3 antibody (82377-1-RR, Clone: 1O19) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using EGLN3/PHD3 antibody (82377-1-RR, Clone: 1O19) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10⁶ U2OS cells were intracellularly stained with 0.25 ug EGLN3/PHD3 Recombinant antibody (82377-1-RR, Clone:1O19) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).