For Research Use Only

PHD1 Recombinant monoclonal antibody

Catalog Number:86614-2-RR

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Basic Information

Catalog Number:
86614-2-RR

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3616

GenBank Accession Number:
BC036051

GeneID (NCBI):
112398

UNIPROT ID:
Q96KS0

Full Name:
egl nine homolog 2 (C. elegans)

Calculated MW:
407 aa, 44 kDa

Observed MW:
48 kDa

Purification Method:
Protein A purification

CloneNo.:
251511G2

Recommended Dilutions:
WB: 1:1000-1:4000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HeLa cells, rat testis tissue, HEK-293 cells, HepG2 cells, A549 cells, BT-474 cells, mouse testis tissue

Background Information

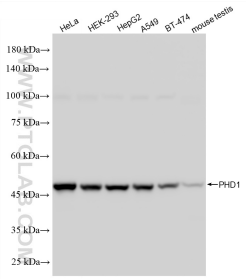
PHD1, also named as EGLN2, EIT6 and HPH-3, catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro-564', and HIF-2 alpha. EGLN2 functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. It may play a role in cell growth regulation.

Storage

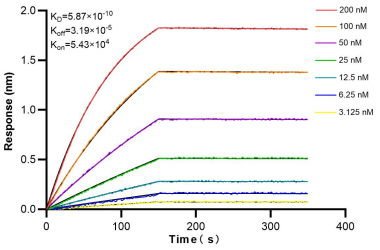
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86614-2-RR (EGLN2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86614-2-RR against Human PHD1 were performed. The affinity constant is 0.587 nM.