

## Product datasheet for **TA336261**

### EGLN1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB: 1:500-1:2500, FC: 3.0 mcg/ml, IF: 1:50, IHC: 1:10-1:500, IHC-P: 1:10-1:500
Reactivity:	Human (Does not react with: Mouse, Rat)
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The epitope recognized by this antibody maps to a region between residues 1 and 50 of human PHD2/HIF Prolyl Hydroxylase 2 using the numbering given in entry NP_071334.1 (GeneID 54583).
Formulation:	Tris-citrate/phosphate, pH 7, 0.1% Sodium azide. Store at 4C. Do not freeze.
Concentration:	lot specific
Purification:	Immunogen affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	46 kDa
Gene Name:	egl-9 family hypoxia inducible factor 1
Database Link:	<a href="#">NP_071334</a> <a href="#">Entrez Gene 112405 Mouse</a> <a href="#">Entrez Gene 308913 Rat</a> <a href="#">Entrez Gene 54583 Human</a> <a href="#">Q9GZT9</a>



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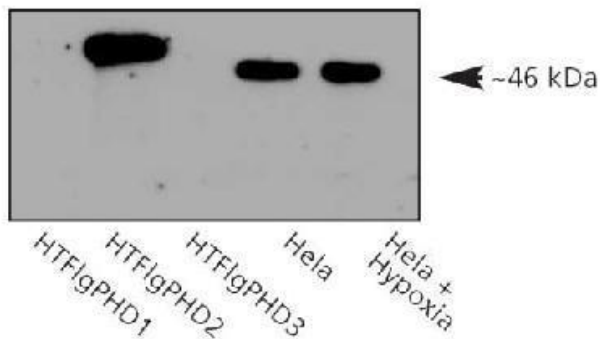
**Background:** PHD2/HIF Prolyl Hydroxylase 2 is one of 4 PHD (PHD1-4) enzymes that function as oxygen sensors and are responsible for the post-translational modification of HIF-1alpha, a component of a transcriptional complex involved in oxygen homeostasis. During normoxic levels, PHDs catalyze the hydroxylation of prolyl residues on HIF-1alpha and target it for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. The PHD isoforms appear to function in a non-redundant manner and may differ in their expression patterns and their catalytic selectivity. Alternate names for PHD2/HIF Prolyl Hydroxylase 2 include PHD2, PH2, Prolyl hydroxylase domain containing protein 2, HIF2PH2, HIF-Prolyl hydroxylase 2, EGLN1, egl nine homolog 1, and C1orf12.

**Synonyms:** C1orf12; ECYT3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6

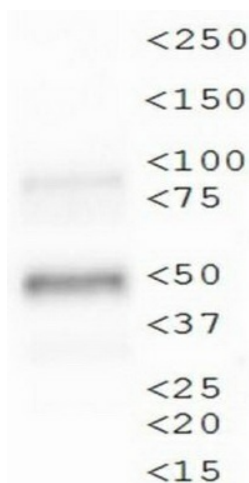
**Note:** This PHD2 antibody is useful for Flow Cytometry, Immunocytochemistry/Immunofluorescence, Western Blot, and Immunohistochemistry- paraffin embedded sections. In ICC/IF, cytoplasmic and nuclear staining was observed in HeLa cells. Immunoprecipitation was reported in scientific literature.

**Protein Pathways:** Pathways in cancer, Renal cell carcinoma

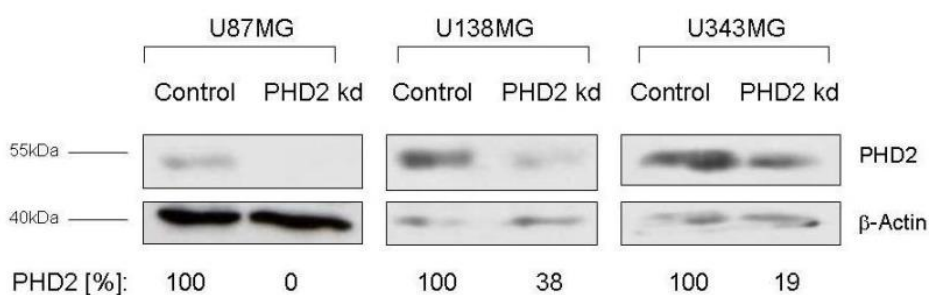
### Product images:



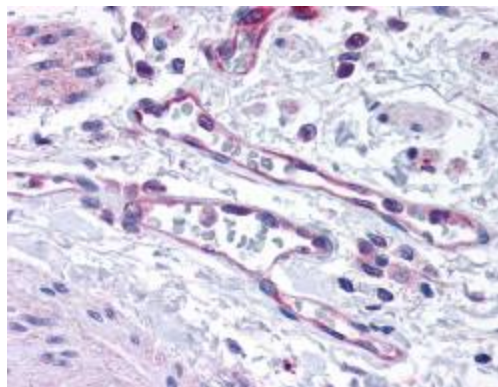
Western Blot: PHD2/HIF Prolyl Hydroxylase 2 Antibody TA336261 - Western Blot analysis of human PHD2, using TA336261. Samples: Recombinant FLAG-His-PHD1, PHD2 or PHD3 (10ng/lane) and whole cell lysate from HeLa cells.



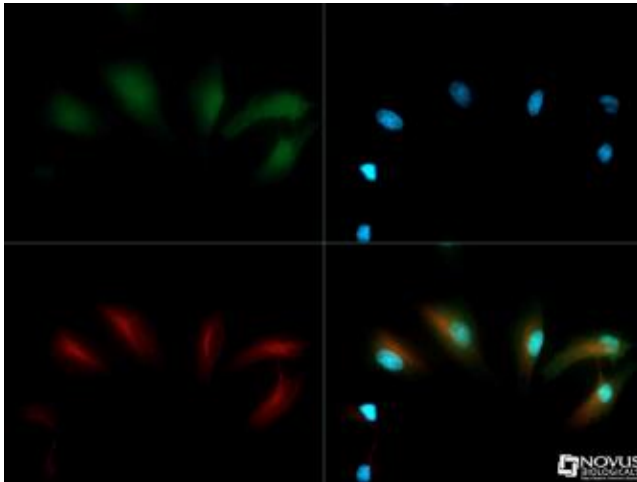
Western Blot: PHD2/HIF Prolyl Hydroxylase 2 Antibody TA336261 - PHD2 antibody was tested in Hep3B cell lysate.



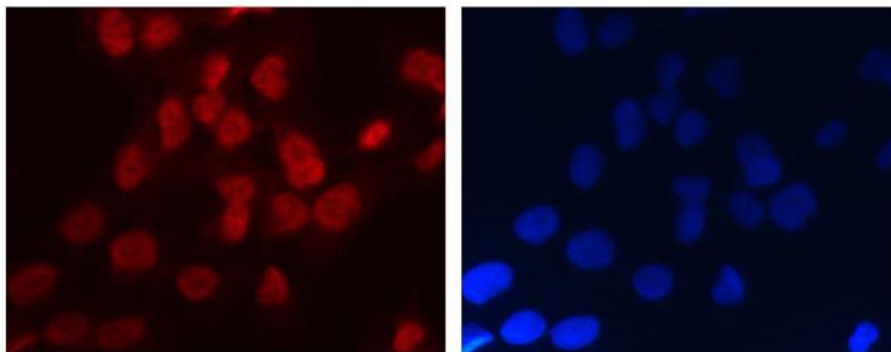
Western Blot: PHD2/HIF Prolyl Hydroxylase 2 Antibody TA336261 - Western blot detection of PHD2 human glioblastoma cells. Image from verified customer review.



Immunohistochemistry: PHD2/HIF Prolyl Hydroxylase 2 Antibody TA336261 - Staining of Vascular Endothelium 40X in Lung using TA336261.



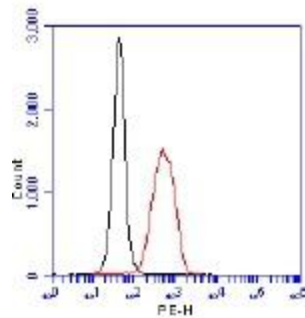
Immunocytochemistry/Immunofluorescence: HIF Prolyl Hydroxylase 2 Antibody TA336261 - PHD2 antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



PHD2 (Alexa 594)

nucleus (DAPI)

Immunocytochemistry/Immunofluorescence: PHD2/HIF Prolyl Hydroxylase 2 Antibody TA336261 - Immunofluorescence of endogenous PHD2 in U2OS cells. Image from verified customer review.



Flow Cytometry: PHD2/HIF Prolyl Hydroxylase 2 Antibody TA336261 - Flow cytometric detection of PHD2. 1 million Jurkat cells were fixed, permeabilized, and stained with 3.0 ug/ml anti-PHD2 TA336261 in a 150 ul reaction. Isotype control (black), anti-MLL