

## Rabbit PHD2/EGLN1 Polyclonal Antibody | anti-PHD2/EGLN1 antibody

(KO Validated) PHD2/EGLN1 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                           |
|-----------|--------|-------------------|--------------------------------------------------------|
| AAA22253  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Immunofluorescence |

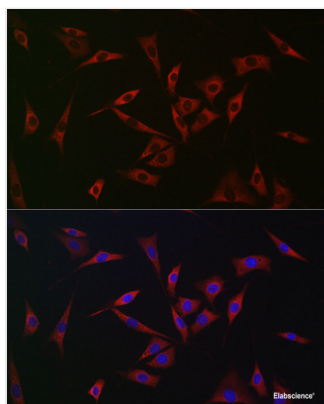
### PRODUCT SYNONYMS

PHD2/EGLN1; Polyclonal Antibody; (KO Validated) PHD2/EGLN1 Polyclonal Antibody; EGLN1; C1orf12; ECTY3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6; anti-PHD2/EGLN1 antibody

### PRODUCT SPECIFICATIONS

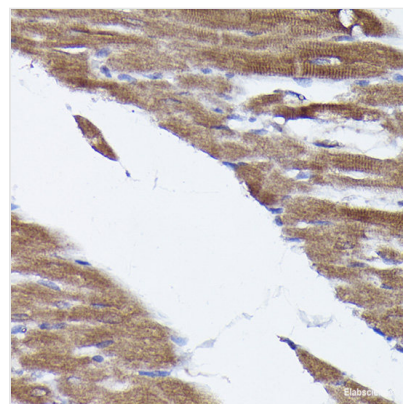
|                                                      |                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------|
| Host                                                 | Rabbit                                                                 |
| Reactivity                                           | Human, Mouse, Rat                                                      |
| Clonality                                            | Polyclonal                                                             |
| Isotype                                              | IgG                                                                    |
| Purity/Purification                                  | Affinity purification                                                  |
| Form/Format                                          | PBS with 0.05% proclin300,50% glycerol,pH7.3.                          |
| Concentration                                        | 1mg/mL (varies by lot)                                                 |
| Applicable Applications for anti-PHD2/EGLN1 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence) |
| Application Notes                                    | WB: 1:500-1:2000<br>IHC: 1:50-1:200<br>IF: 1:50-1:200                  |
| Immunogen                                            | A synthetic peptide of human PHD2/EGLN1                                |
| Research Area                                        | Cancer, Cardiovascular, Epigenetics and Nuclear Signaling, Metabolism  |
| Preparation and Storage                              | Storage: -20 degree C/One year. Avoid freeze/thaw cycles.              |

### IMAGES



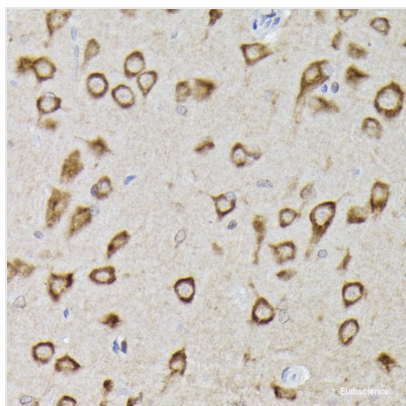
#### IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] PHD2/EGLN1 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



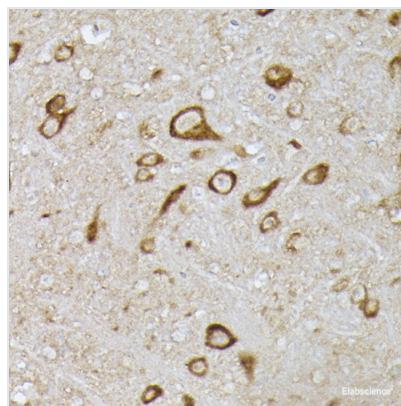
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat heart using [KO Validated] PHD2/EGLN1 Polyclonal Antibody at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



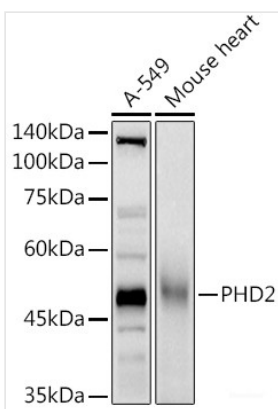
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded rat brain using [KO Validated] PHD2/EGLN1 Polyclonal Antibody at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



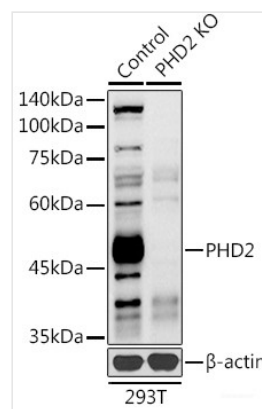
#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse brain using [KO Validated] PHD2/EGLN1 Polyclonal Antibody at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines using PHD2/EGLN1 Polyclonal Antibody at 1:1000 dilution.



#### WB (Western Blot)

Western blot analysis of extracts from normal (control) and PHD2/EGLN1 knockout (KO) 293T cells, using PHD2/EGLN1 Polyclonal Antibody at 1:1000 dilution.

## ADDITIONAL INFORMATION

#### Related Product Information for anti-PHD2/EGLN1 antibody

The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3).

#### Product Categories/Family for anti-PHD2/EGLN1 antibody

[Antibodies](#); [Primary Antibodies](#); [Polyclonal Antibody](#)

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">32129514</a>                                                                          |
| NCBI GeneID                      | <a href="#">54583</a>                                                                             |
| UniProt Accession #              | <a href="#">Q9GZT9</a> ; <a href="#">Q8N3M8</a> ; <a href="#">Q9BZS8</a> ; <a href="#">Q9BZT0</a> |
| Molecular Weight                 | 426                                                                                               |
| NCBI Official Full Name          | Egl nine homolog 1                                                                                |
| NCBI Official Synonym Full Names | egl-9 family hypoxia-inducible factor 1                                                           |
| NCBI Official Symbol             | EGLN1                                                                                             |

|                                      |                                                                                                                                                                                                                                              |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI Official Synonym Symbols</b> | HPH2; PHD2; SM20; ECT3; HALAH; HPH-2; HIFPH2; ZMYND6; C1orf12; HIF-PH2                                                                                                                                                                       |
| <b>NCBI Protein Information</b>      | egl nine homolog 1; egl nine-like protein 1; HIF prolyl hydroxylase 2; HIF-prolyl hydroxylase 2; zinc finger MYND domain-containing protein 6; hypoxia-inducible factor prolyl hydroxylase 2; prolyl hydroxylase domain-containing protein 2 |
| <b>UniProt Protein Name</b>          | Egl nine homolog 1                                                                                                                                                                                                                           |
| <b>UniProt Gene Name</b>             | <b>EGLN1</b>                                                                                                                                                                                                                                 |
| <b>UniProt Synonym Gene Names</b>    | HIF-PH2; HIF-prolyl hydroxylase 2; HPH-2; PHD2                                                                                                                                                                                               |
| <b>UniProt Entry Name</b>            | EGLN1_HUMAN                                                                                                                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phd2-egln1-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/22253>