



## Rabbit Anti-HIF Prolyl Hydroxylases/FITC Conjugated antibody

SL1871R-FITC

<b>Product Name:</b>	Anti-HIF Prolyl Hydroxylases/FITC
<b>Chinese Name:</b>	FITC标记的缺氧诱导因子脯氨酰4羟化酶抗体
<b>Alias:</b>	PHD4/prolyl hydroxylase; EGLN4; FLJ20262; HIF prolyl hydroxylase PH4; HIF-PH4; HIF-prolyl hydroxylase 4; HIFPH4; HPH-4; Hypoxia inducible factor prolyl 4 hydroxylase; Hypoxia inducible factor prolyl hydroxylase; Hypoxia-inducible factor prolyl hydroxylase 4; P4H TM; P4H with transmembrane domain; P4H-TM; P4htm; P4HTM_HUMAN; PH 4; PH4; PHD4; Proline 4 hydroxylase; Prolyl 4 hydroxylase transmembrane (endoplasmic reticulum); Prolyl hydroxylase domain containing 4; Transmembrane prolyl 4-hydroxylase.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
<b>Applications:</b>	IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	55kDa
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PH-4
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Product Detail:</b>	<b>background:</b> The product of this gene belongs to the family of prolyl 4-hydroxylases. This protein is

a prolyl hydroxylase that may be involved in the degradation of hypoxia-inducible transcription factors under normoxia. It plays a role in adaptation to hypoxia and may be related to cellular oxygen sensing. Alternatively spliced variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008].

**Function:**

Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF1A at 'Pro-402' and 'Pro-564'. May function as a cellular oxygen sensor and, under normoxic conditions, may target HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex.

**Subunit:**

Homodimer.

**Subcellular Location:**

Endoplasmic reticulum membrane; Single-pass type II membrane protein.

**Tissue Specificity:**

Widely expressed with highest levels in adult pancreas, heart, skeletal muscle, brain, placenta, kidney and adrenal gland. Expressed at lower levels in epiphyseal cartilage and in fibroblasts.

**Post-translational modifications:**

Glycosylated.

**Similarity:**

Contains 2 EF-hand domains.

Contains 1 Fe2OG dioxygenase domain.

**Database links:**

[Entrez Gene: 538626](#)Cow

[Entrez Gene: 54681](#)Human

[Entrez Gene: 74443](#)Mouse

[Entrez Gene: 301008](#)Rat

[SwissProt: Q9NXG6](#)Human

[SwissProt: Q8BG58](#)Mouse

[Unigene: 654944](#)Human

[Unigene: 226534](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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