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Rabbit Anti-HIF Prolyl Hydroxylases antibody

SL1871R

Product Name:	HIF Prolyl Hydroxylases
Chinese Name:	缺氧诱导因子脯氨酰4羟化酶抗体
Alias:	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 hydroxlase domain containing 4; Transmembrane prolyl 4-hydroxylase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PH-4:201-300/502
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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.

SWISS:
Q9NXG6

Gene ID:
54681

Database links:

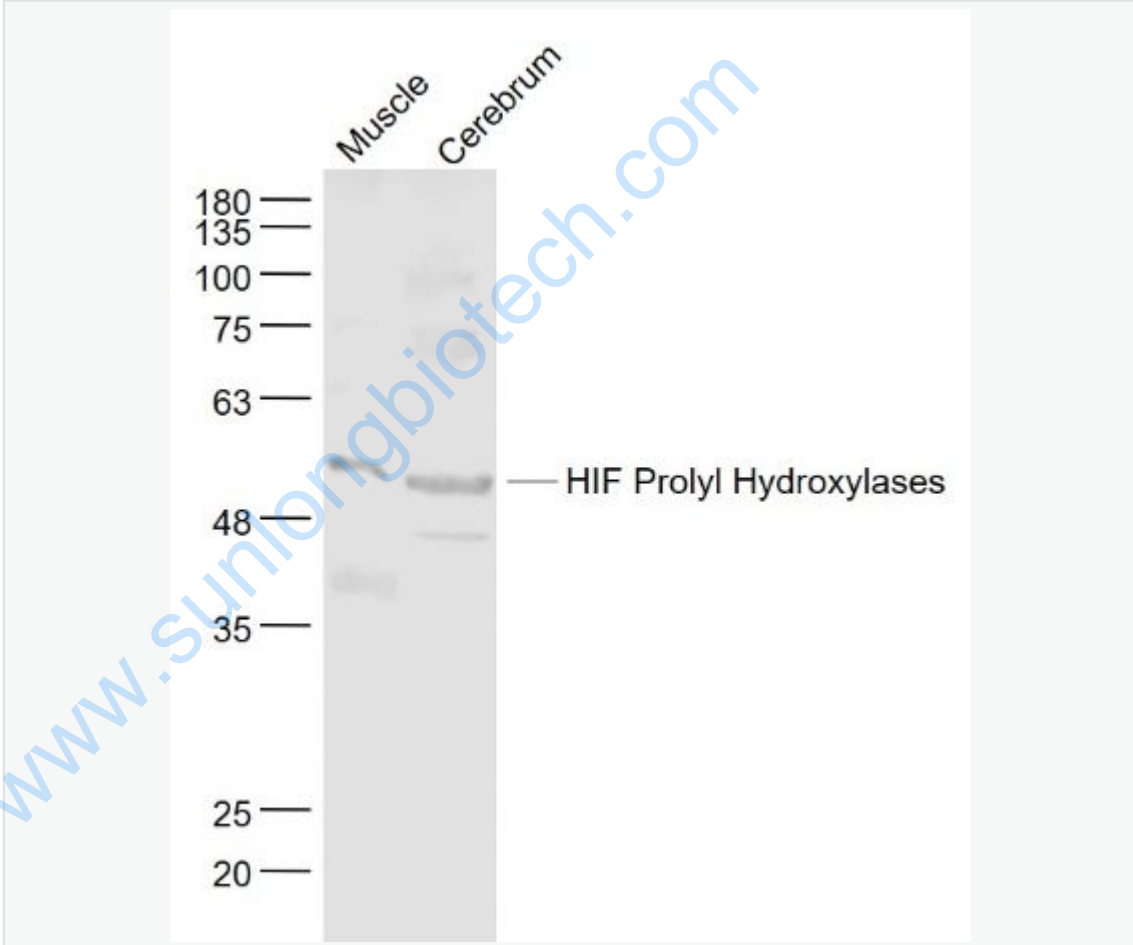
Entrez Gene: 538626Cow

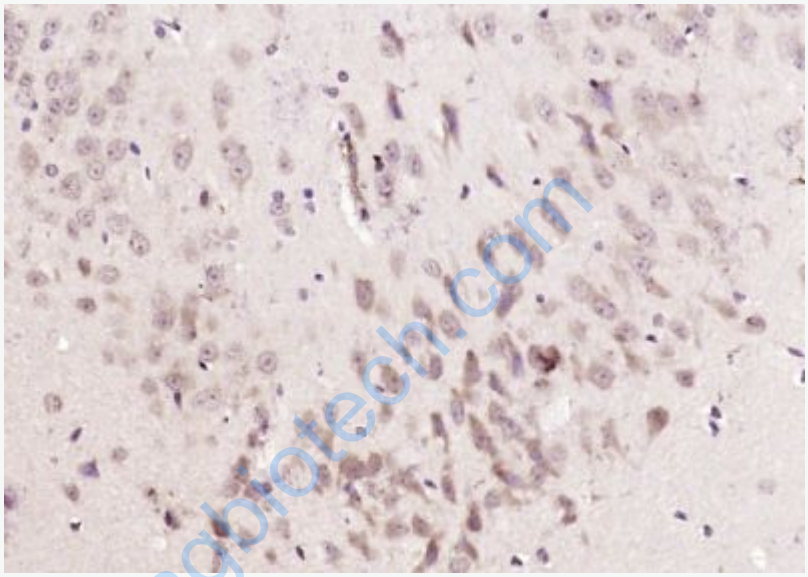
Entrez Gene: 54681Human

Entrez Gene: 74443Mouse

Entrez Gene: 301008Rat

SwissProt: Q9NXG6Human

	SwissProt: Q8BG58Mouse Unigene: 654944Human Unigene: 226534Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Muscle (Mouse) Lysate at 40 ug Cerebrum (Mouse) Lysate at 40 ug Primary: Anti- HIF Prolyl Hydroxylases (SL1871R) at 1/1000 dilution

	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kD Observed band size: 55 kD
	 Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HIF Prolyl Hydroxylases) Polyclonal Antibody, Unconjugated (SL1871R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.