



PHD1 mouse mAb

Catalog No	YP-mAb-18253
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	EGLN2 EIT6
Immunogen	Synthesized peptide derived from human PHD1
Specificity	This antibody detects endogenous levels of PHD1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DKFZp434E26;EGL nine (C.elegans) homolog 2;Egl nine homolog 2 (C. elegans);Egl nine homolog 2;EGLN 2;EGLN2;EGLN2_HUMAN;EIT 6;EIT6; Estrogen-induced tag 6;HIF P4H 1;HIF PH1;HIF prolyl hydroxylase 1;HIF-PH1; HIF-prolyl hydroxylase 1;HIFPH 1;HIFPH1;HPH 3;HPH-1;HPH-3;HPH3;Hypoxia inducible factor prolyl hydroxylase 1;Hypoxia-inducible factor prolyl hydroxylase 1;P4H1;PHD 1;PhD1;prolyl hydroxylase domain containing protein 1;Prolyl hydroxylase domain-containing protein 1;EGLN2 EIT6;Egl nine homolog 2 (EC 1.14.11.29) (Estrogen-induced tag 6) (HPH-3) (Hypoxia-inducible factor prolyl hydroxylase 1) (HIF-PH1) (HIF-prolyl hydroxylase 1) (HPH-1) (Prolyl hydroxylase domain-containing p
Observed Band	45kD
Calculated Molecular Weight	44 kDa; 44kD(Calculated).
Cell Pathway	Nucleus .
Tissue Specificity	Expressed in adult and fetal heart, brain, liver, lung, skeletal muscle, and kidney. Also expressed in testis and placenta. Highest levels in adult brain, placenta, lung, kidney, and testis. Expressed in hormone responsive tissues, including normal and cancerous mammary, ovarian and prostate epitheliu

**Function**

Prolyl hydroxylase that mediates hydroxylation of proline residues in target proteins, such as ATF4, IKBKB, CEP192 and HIF1A . Target proteins are preferentially recognized via a LXXLAP motif . Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins . Hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A . Also hydroxylates HIF2A . Has a preference for the CODD site for both HIF1A and HIF2A . Hydroxylated HIFs are then targeted for proteasomal degradation via the von Hippel-Lindau ubiquitination complex . Under hypoxic conditions, the hydroxylation reaction is attenuated allowing HIFs to escape degradation resulting in their translocation to the nucleus, heterodimerization with HIF1B, a

Background**matters needing attention**

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images