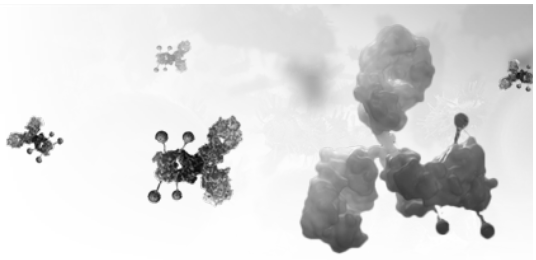

Rabbit Anti-PHD1/prolyl hydroxylase monoclonal antibody, clone TQ11-59 (CABT-L605)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	PHD1/prolyl hydroxylase
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TQ11-59
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, FC
Molecular Weight	44 kDa
Cellular Localization	Nucleus, cytosol.
Positive Control	A549, SKOV-3, Hela, PC12, NIH/3T3, mouse prostate tissue, human lung cancer tissue, human breast carcinoma tissue, mouse testis tissue.
Format	Liquid
Size	100 µl

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Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	Prolyl hydroxylase domain proteins HIF PHD1, HIF PHD2 and HIF PHD3 (known as PHD1, PHD2 and PHD3 in rodents, respectively) can hydroxylate HIF-α subunits. Hypoxia-inducible factor (HIF) is a transcriptional regulator important in several aspects of oxygen homeostasis. The prolyl hydroxylases catalyze the posttranslational formation of 4-hydroxyproline in HIF-α proteins. HIF PHD1, which is widely expressed, with highest levels of expression in testis, functions as a cellular oxygen sensor and is important in cell growth regulation. HIF PHD1 can localize to the nucleus or the cytoplasm and is also detected in hormone responsive tissues, such as normal and cancerous mammary, ovarian and prostate epithelium. HIF PHD1 is encoded by EGLN2, which maps to chromosome 19q13.3. HIF PHD2 is regarded as the main cellular oxygen sensor, as RNA interference against HIF PHD2, but not HIF PHD1 or HIF PHD3, is enough to stabilize HIF-1α in normoxia. HIF PHD2, a direct HIF target gene, is expressed mainly in skeletal muscle, heart, kidney and brain. HIF PHD3 may play a role in the regulation of cell growth in muscle cells and in apoptosis in neuronal tissue. HIF PHD3 is widely expressed, although the highest levels can be detected in placenta and he
Keywords	DKFZp434E026;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 antibody

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