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## Datasheet for ABIN7151445 anti-PHD1 antibody (AA 283-407) (Biotin)



Overview

Quantity:	100 µg
Target:	PHD1 (EGLN2)
Binding Specificity:	AA 283-407
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHD1 antibody is conjugated to Biotin
Application:	ELISA

## Product Details

Immunogen:	Recombinant Human Egl nine homolog 2 protein (283-407AA)
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	PHD1 (EGLN2)
Alternative Name:	EGLN2 (EGLN2 Products)
Background:	Background: Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-
	translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins.

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	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, and increased
	expression of hypoxy-inducible genes. EGLN2 is involved in regulating hypoxia tolerance and
	apoptosis in cardiac and skeletal muscle. Also regulates susceptibility to normoxic oxidative
	neuronal death. Links oxygen sensing to cell cycle and primary cilia formation by hydroxylating
	the critical centrosome component CEP192 which promotes its ubiquitination and subsequent
	proteasomal degradation. Hydroxylates IKBKB, mediating NF-kappaB activation in hypoxic
	conditions. Target proteins are preferencially recognized via a LXXLAP motif.
	Aliases: DKFZp434E026 antibody, EGL nine (C.elegans) homolog 2 antibody, Egl nine homolog
	2 (C. elegans) antibody, Egl nine homolog 2 antibody, EGLN 2 antibody, EGLN2 antibody,
	EGLN2_HUMAN antibody, EIT 6 antibody, EIT6 antibody, Estrogen-induced tag 6 antibody, HIF
	P4H 1 antibody, HIF PH1 antibody, HIF prolyl hydroxylase 1 antibody, HIF-PH1 antibody, HIF-
	prolyl hydroxylase 1 antibody, HIFPH 1 antibody, HIFPH1 antibody, HPH 3 antibody, HPH-1
	antibody, HPH-3 antibody, HPH3 antibody, Hypoxia inducible factor prolyl hydroxylase 1
	antibody, Hypoxia-inducible factor prolyl hydroxylase 1 antibody, P4H1 antibody, PHD 1
	antibody, PhD1 antibody, prolyl hydroxylase domain containing protein 1 antibody, Prolyl
	hydroxylase domain-containing protein 1 antibody
UniProt:	Q96KS0
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Cell RedoxHomeostasis
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Buffer:	Preservative: 0.03 % Proclin 300
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Handling	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

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