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Datasheet for ABIN705898
anti-PHD1 antibody (AA 321-407) (Biotin)

Overview

Quantity:	100 µL
Target:	PHD1 (EGLN2)
Binding Specificity:	AA 321-407
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHD1 antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PHD1/prolyl hydroxylase
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Cow,Sheep
Purification:	Purified by Protein A.

Target Details

Target:	PHD1 (EGLN2)
Alternative Name:	PHD1 (EGLN2 Products)

Target Details

Background: Synonyms: Egl nine homolog 2, prolyl hydroxylase, EGLN 2, EGLN2, EIT 6, EIT6, H P4H 1, H PH1, HPH1, HPH 3, HPH3, P4H1, PHD 1, PHD1, EGL nine C.elegans homolog 2, EGLN2_HUMAN.
Background: PHD1 catalyzes the posttranslational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins and hydroxylates HIF-1 alpha at Pro-402 and Pro-564, and HIF-2 alpha. It functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitylation complex. It may play a role in cell growth regulation.

Gene ID: 112398

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Cell Redox Homeostasis](#)

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IHC-F 1:100-500

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months