

## **Product Name: PHD3 Rabbit Monoclonal Antibody**

Catalog #: AMRe87588

For research use only.

### **Summary**

**Description** Recombinant rabbit monoclonal antibody

**Host** Rabbit

**Application** WB,ICC/IF,IP

Reactivity Human, Mouse, Rat
Conjugation Unconjugated
Modification Unmodified

**Isotype** IgG

Clonality Monoclonal
Form Liquid

Concentration

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and **Buffer** 

0.05% protective protein. Stable for 12 months from date of receipt.

**Purification** Affinity Purification

## **Application**

**Dilution Ratio** WB 1:500-1:2000,ICC/IF 1:100-1:200,IP 1:50-1:100

Molecular Weight Calculated MW:27 kDa; Observed MW:27 kDa

# **Antigen Information**

Gene Name PHD3

Alternative Names PHD3; HIFPH3; HIFP4H3

 Gene ID
 112399

 SwissProt ID
 Q9H6Z9

**Immunogen** Recombinant protein of human PHD3

## **Background**

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

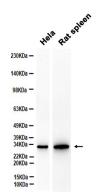
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degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. Also hydroxylates HIF2A. Has a preference for the CODD site for both HIF1A and HIF2A. Hydroxylation on the NODD site by EGLN3 appears to require prior hydroxylation on the CODD site. 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.

#### **Research Area**

#### **Image Data**



Western blot analysis of extracts from HeLa cells and Rat spleen tissue using PHD3 Rabbit Monoclonal Antibody at 1:1000.

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