







## PHD3 (DGR16500) Rabbit mAb

db11933 Package : 10μL 20μL 50μL 100μL

Product Name: PHD3 (DGR16500) Rabbit mAb

Cat.No.: db11933

Synonyms: PHD3; HIFPH3; HIFP4H3

**Application :** WB, ICC/IF, IP **Reactivity :** Human, Mouse, Rat

Host species: Rabbit

**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 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.

Immunogen Recombinant protein of human PHD3

**Gene ID** 112399

Swiss Prot Q9H6Z9

**Synonyms** PHD3; HIFPH3; HIFP4H3

Reactivity Human.Mouse.Rat

Application WB, ICC/IF, IP

Recommended dilution WB: 1:1000

ICC/IF: 1:100-1:200

IP: 1:50-1:100

Calculated MW 27 kDa

Observed MW 27 kDa

Host species Rabbit

**Clonality** Monoclonal



## For Research Use Only **Product Datasheet**

Clonality No. DGR16500

**Isotype** IgG

**Purity** Affinity Purification

**Conjugation** Un-conjugated

Storage Stability Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium

azide and 0.05% BSA. Stable for 12 months from date of receipt.

Western blot analysis of extracts from HeLa cells and Rat spleen tissue using db11933 at

1:1000.