PHD3 Rabbit pAb

db5389 **Package : 20μL 50μL 100μL**

Product Name : PHD3 Rabbit pAb
Cat.No.: db5389
Synonyms : PHD3; HIFPH3; HIFP4H3
Application : WB, IHC, 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, IHC, ICC/IF, IP
Recommended dilution	WB: 1:1000 IHC: 1:50 ICC/IF: 1:50 IP: 1:20
Calculated MW	27 kDa
Observed MW	27 kDa
Host species	Rabbit
Clonality	Polyclonal

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.