

For Research Use Only

# PHD1 Recombinant monoclonal antibody

Catalog Number: 86614-2-RR



## Basic Information

<b>Catalog Number:</b> 86614-2-RR	<b>GenBank Accession Number:</b> BC036051	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 112398	<b>CloneNo.:</b> 251511G2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96KSO	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> egl nine homolog 2 (C. elegans)	
<b>Immunogen Catalog Number:</b> AG3616	<b>Calculated MW:</b> 407 aa, 44 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, rat testis tissue, HEK-293 cells, HepG2 cells, A549 cells, BT-474 cells, mouse testis tissue
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

PHD1, also named as EGLN2, EIT6 and HPH-3, catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. It hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro-564', and HIF-2 alpha. EGLN2 functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. It may play a role in cell growth regulation.

## Storage

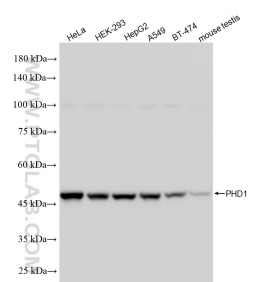
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

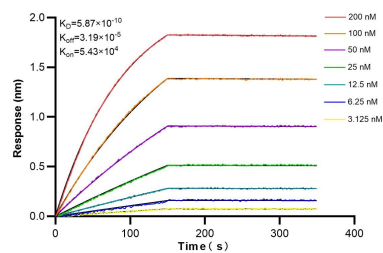
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86614-2-RR (EGLN2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86614-2-RR against Human PHD1 were performed. The affinity constant is 0.587 nM.