

For Research Use Only

PHD1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 86614-2-PBS



Basic Information

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

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
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

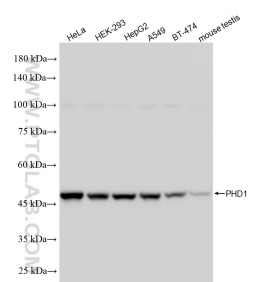
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

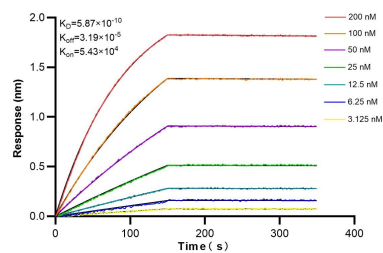
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 86614-2-PBS in a different storage buffer formulation.



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