

Human PHD2 (Prolyl Hydroxylase Domain-Containing Protein 2) ELISA Kit | PHD2 elisa kit

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CATALOG #
AAA27615

REACTIVITY
Human

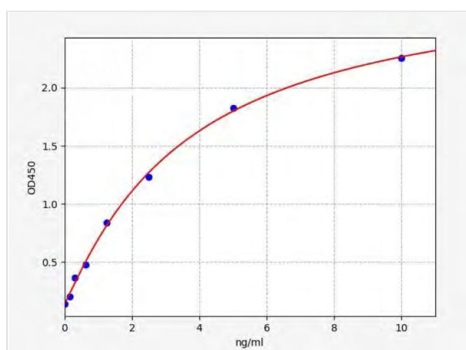
PRODUCT SYNONYMS

PHD2 (Prolyl Hydroxylase Domain-Containing Protein 2); Human PHD2 (Prolyl Hydroxylase Domain-Containing Protein 2) ELISA Kit; PHD2; PHD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize PHD2, no obvious cross reaction with other analogues
Sequence Length	426
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PHD2 elisa kit	Background: Prolyl hydroxylase domain-containing protein 2 (PHD2), also known as egg-laying defective nine homologue 1 (EGLN1) or HIF prolyl hydroxylase 2 (HPH2), is one of three known 2-oxoglutarate (2OG) and Fe(II)-dependent oxygenases (PHD1-3). Diseases associated with PHD2 include Erythrocytosis, Familial, 3 and Hemoglobin, High Altitude Adaptation. Among its related pathways are Cellular responses to stimuli and Regulation of activated PAK-2p34 by proteasome mediated degradation. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti PHD2 antibody was pre-coated onto the 96-well plate. The biotin conjugated anti PHD2 antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with PHD2 conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of PHD2 in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32129514
NCBI GeneID	54583
UniProt Accession #	Q9GZT9
NCBI Official Full Name	Egl nine homolog 1
NCBI Official Synonym Full Names	egl-9 family hypoxia inducible factor 1
NCBI Official Symbol	EGLN1
NCBI Official Synonym Symbols	HPH2; PHD2; SM20; ECYT3; HALAH; HPH-2; HIFPH2; ZMYND6; C1orf12; HIF-PH2
NCBI Protein Information	egl nine homolog 1
UniProt Protein Name	Egl nine homolog 1
UniProt Gene Name	EGLN1
UniProt Synonym Gene Names	HIF-PH2; HIF-prolyl hydroxylase 2; HPH-2; PHD2
UniProt Entry Name	EGLN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.