bs-3686R **[Primary Antibody]**

PHD2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 54583 **SWISS:** Q9GZT9

Target: PHD2

Immunogen: KLH conjugated synthetic peptide derived from human PHD2: 42-140/426.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: PHD2 protein catalyzes the posttranslational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. In the presence of oxygen, PHD2 converts specific prolyl residues in HIF alpha to hydroxyproline, leading to HIF alpha proteasomal degradation via the von Hippel-Lindau ubiquitylation complex. Low oxygen levels, sensed at the cellular level, cause the HIF conversion to be reduced so that HIF levels are stable. This results in increased angiogenesis as HIF1 alpha regulates the expression of many angiogenesis-related genes.

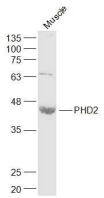
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:50)

Reactivity: Human, Mouse (predicted: Rabbit, Pig, Cow)

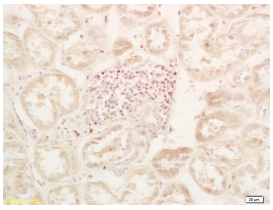
Predicted MW.: 47 kDa

Subcellular Location: Cytoplasm ,Nucleus

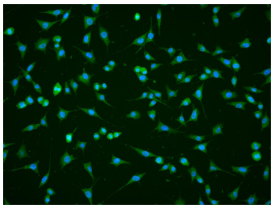
VALIDATION IMAGES



Sample: Muscle (Mouse) Lysate at 40 ug Primary: Anti-PHD2 (bs-3686R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 43 kD



Tissue/cell: Human kidney; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PHD2 Polyclonal Antibody, Unconjugated(bs-3686R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



A431 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (PHD2) polyclonal Antibody, Unconjugated (bs-3686R) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.