

**bs-0532R****[ Primary Antibody ]****PHD3 Rabbit pAb****BioSS**  
**ANTIBODIES**

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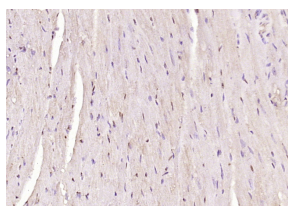
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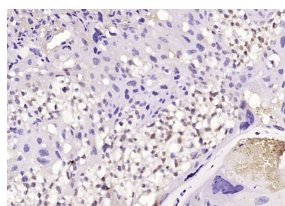
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 112399	<b>SWISS:</b> Q9H6Z9	
<b>Target:</b> PHD3		<b>Reactivity:</b> Mouse (predicted: Human, Rat, Pig, Cow, Dog)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human PHD3: 151-239/239.		
<b>Purification:</b> affinity purified by Protein A		<b>Predicted MW.:</b> 26 kDa
<b>Concentration:</b> 1mg/ml		<b>Subcellular Location:</b> Nucleus
<b>Storage:</b> 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.		
<b>Background:</b> PHD3 (Egl nine homolog 3; Hypoxia-inducible factor prolyl hydroxylase 3; HIF-prolyl hydroxylase 3; HIF-PH3; HPH-1; EglN3; Prolyl hydroxylase domain-containing protein 3;)Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF-1 alpha at 'Pro-564', and HIF-2 alpha. 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. May play a role in cell growth regulation in muscle cells and in apoptosis in neuronal tissue. Promotes cell death through a caspase-dependent mechanism. [Catalytic Activity] An HIF alpha chain L-proline + 2-oxoglutarate+ O(2) = An HIF alpha chain trans-4-hydroxy-L-proline + succinate + CO(2). [Subcellular Location] Cytoplasm. Nucleus. Widely expressed at low levels. Expressed at higher levels in heart (cardiac myocytes, aortic endothelial cells and coronary artery smooth muscle) and placenta.		

**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (mouse heart tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PHD3) Polyclonal Antibody, Unconjugated (bs-0532R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PHD3) Polyclonal Antibody, Unconjugated (bs-0532R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.