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Datasheet for ABIN669741 **anti-EGLN3 antibody (AA 151-239)**

Overview

Quantity:	100 µL
Target:	EGLN3
Binding Specificity:	AA 151-239
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EGLN3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from PHD3
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Cow,Pig
Purification:	Purified by Protein A.

Target Details

Target:	EGLN3
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Target Details

Alternative Name:	PHD3 (EGLN3 Products)
Background:	<p>Synonyms: EGL9 homolog of C. elegans 3, EGLN3, Factor responsive smooth muscle protein, H Prolyl Hydroxylase 3, HP4H3, HPH3, P4H3, Prolyl Hydroxylase Domain Containing Protein 3, SM20, Hypoxia-inducible factor prolyl hydroxylase 3, HIF-PH3, HPH-3.</p> <p>Background: 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 athigher levels in heart (cardiac myocytes, aortic endothelial cells and coronary artery smooth muscle) and placenta.</p>
Gene ID:	112399
UniProt:	Q9H6Z9
Pathways:	Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months