

Rabbit EGLN3 Polyclonal Antibody | anti-EGLN3 antibody

EGLN3 Polyclonal Antibody

CATALOG # AAA166385	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, ELISA
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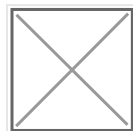
PRODUCT SYNONYMS

EGLN3; Polyclonal Antibody; EGLN3 Polyclonal Antibody; PHD3; HIFPH3; HIFP4H3; anti-EGLN3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% sodium azide, 50% glycerol, pH7.4
Sequence Length	239
Applicable Applications for anti-EGLN3 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant protein of human EGLN3
Preparation and Storage	Store at -20°C. Avoid freeze / thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human liver cancer tissue using EGLN3 Polyclonal Antibody at dilution 1:30

ADDITIONAL INFORMATION

Related Product Information for anti-EGLN3 antibody

Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODD) domains (N-terminal, NODD, and C-terminal, CODD) of HIF1A. Also hydroxylates HIF2A. Has a preference for the CODD site for both HIF1A and HIF2A. Hydroxylation on the NODD site by EGLN3 appears to require prior hydroxylation on the CODD site. Hydroxylated HIFs are then targeted for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Under hypoxic conditions, the hydroxylation reaction is attenuated allowing HIFs to escape degradation resulting in their translocation to the nucleus, heterodimerization with HIF1B, and increased expression of hypoxia-inducible genes. EGLN3 is the most important isozyme in limiting physiological activation of HIFs (particularly HIF2A) in hypoxia. Also hydroxylates PKM in hypoxia, limiting glycolysis. Under normoxia, hydroxylates and regulates the stability of ADRB2. Regulator of cardiomyocyte and neuronal apoptosis. In cardiomyocytes, inhibits the anti-apoptotic effect of BCL2 by disrupting the BAX-BCL2 complex.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11545787
NCBI GeneID	112399
NCBI Accession #	NP_071356.1
NCBI GenBank Nucleotide #	NM_022073.3
NCBI Official Full Name	egl nine homolog 3
NCBI Official Synonym Full Names	egl-9 family hypoxia-inducible factor 3
NCBI Official Symbol	EGLN3
NCBI Official Synonym Symbols	PHD3; HIFPH3; HIFP4H3
NCBI Protein Information	egl nine homolog 3; HIF prolyl hydroxylase 3; HIF-PH3; HIF-prolyl hydroxylase 3; HPH-1; HPH-3; egl nine-like protein 3 isoform; hypoxia-inducible factor prolyl hydroxylase 3; prolyl hydroxylase domain-containing protein 3
UniProt Protein Name	Egl nine homolog 3
UniProt Gene Name	EGLN3
UniProt Synonym Gene Names	HIF-PH3; HIF-prolyl hydroxylase 3; HPH-3; PHD3
UniProt Entry Name	EGLN3_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/egln3-antibody-immunohistochemistry-elisa/166385>