Datasheet for ABIN7151442

anti-EGLN1 antibody (AA 301-426)

1 Image

Go to Product page

Overview

Quantity:	100 µL
Target:	EGLN1
Binding Specificity:	AA 301-426
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EGLN1 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Egl nine homolog 1 protein (301-426AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	EGLN1
Alternative Name:	EGLN1 (EGLN1 Products)
Background:	Background: Cellular oxygen sensor that catalyzes, under normoxic conditions, the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins.

Target Details

	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 HIF1B. 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 hypoxy-inducible genes. EGLN1 is the most important isozyme under normoxia and, through regulating the stability of HIF1, involved in various hypoxia-influenced processes such as angiogenesis in retinal and cardiac functionality. Target proteins are preferencially recognized via a LXXLAP motif. Aliases: C1ORF12 antibody, Chromosome 1 Open Reading Frame 12 antibody, DKFZp761F179 antibody, ECYT 3 antibody, ECYT3 antibody, Egl 9 family hypoxia inducible factor 1 antibody, EGL 9 homolog of C. elegans 1 antibody, EGL nine (C.elegans) homolog 1 antibody, Egl nine homolog 1 (C. elegans) antibody, Egl nine homolog 1 antibody, Egl nine like protein 1 antibody, EGLN 1 antibody, Egln1 antibody, EGLN1_HUMAN antibody, HIF PH2 antibody, HIF Prolyl Hydroxylase 2 antibody, HIF-PH2 antibody, HIF-prolyl hydroxylase 2 antibody, HIFP4H 2 antibody, HIFPH2 antibody, HPH 2 antibody, HPH-2 antibody, HPH2 antibody, Hypoxia inducible factor prolyl hydroxylase 2 antibody, Hypoxia-inducible factor prolyl hydroxylase 2 antibody, ORF13 antibody, P4H2 antibody, PHD 2 antibody, PhD2 antibody, PNAS 118 antibody, PNAS 137 antibody, Prolyl Hydroxylase Domain Containing Protein 2 antibody, Prolyl hydroxylase domain-containing protein 2 antibody, Rat Homolog of SM20 antibody, SM 20 antibody, SM-20 antibody, SM20 antibody, Zinc finger MYND domain containing protein 6 antibody, ZMYND6 antibody
UniProt:	Q9GZT9
Pathways:	cAMP Metabolic Process, Warburg Effect

Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200,
Restrictions:	For Research Use only

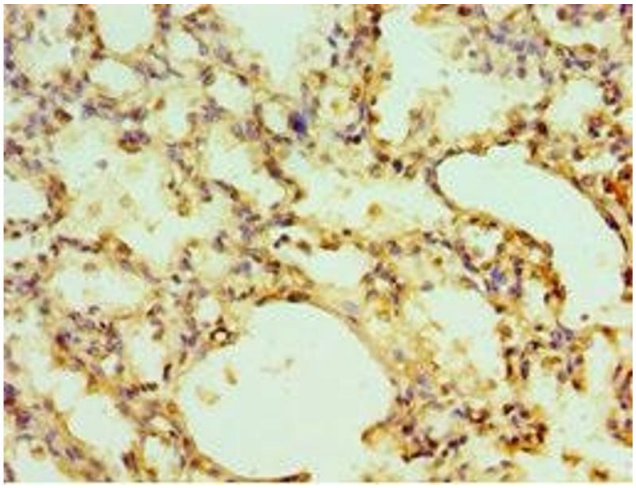
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human lung tissue using ABIN7151442 at dilution of 1:100