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Datasheet for ABIN7151443 anti-EGLN1 antibody (AA 301-426)

2 Images



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:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	Recombinant Human Egl nine homolog 1 protein (301-426AA)
Isotype:	lgG
Cross-Reactivity:	Human, Rat
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.

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Hydroxylates a specific proline found in each of the oxygen-dependent degradation (ODI	D)
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 targ	jeted
for proteasomal degradation via the von Hippel-Lindau ubiquitination complex. Under hy	/poxic
conditions, the hydroxylation reaction is attenuated allowing HIFs to escape degradation	۱
resulting in their translocation to the nucleus, heterodimerization with HIF1B, and increa	sed
expression of hypoxy-inducible genes. EGLN1 is the most important isozyme under norr	noxia
and, through regulating the stability of HIF1, involved in various hypoxia-influenced proce	esses
such as angiogenesis in retinal and cardiac functionality. Target proteins are preferencia	ally
recognized via a LXXLAP motif.	

Aliases: C10RF12 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, HPH 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

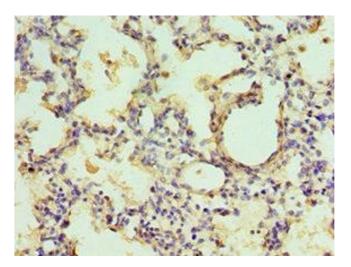
UniProt:	Q9GZT9
Pathways:	cAMP Metabolic Process, Warburg Effect
Application Details	
Application Notes:	Recommended dilution: WB:1:500-1:2000, IHC:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.

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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



120kDa — 90kDa — 50kDa — 35kDa — 25kDa — 20kDa —

Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human lung tissue using ABIN7151443 at dilution of 1:100

Western Blotting

Image 2. Western blot All lanes: Egl nine homolog 1 antibody at $12 \mu g/mL$ + Rat brain tissue Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 47, 44, 37 kDa Observed band size: 47 kDa

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