Datasheet for ABIN2778438

anti-PHD1 antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	PHD1 (EGLN2)
Binding Specificity:	Middle Region
Reactivity:	Human, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHD1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human EGLN2
Sequence:	AVLDGSELSY FGQEGMTEVQ CGKVAFQFQC SSDSTNGTGV QGGQIPELIF
Predicted Reactivity:	Dog: 85%, Human: 100%
Characteristics:	This is a rabbit polyclonal antibody against EGLN2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PHD1 (EGLN2)
Alternative Name:	EGLN2 (EGLN2 Products)

Target Details

Background:	The hypoxia inducible factor (HIF) is a transcriptional complex which is involved in oxygen homeostasis. At normal oxygen levels, the alpha subunit of HIF is targeted for degration by prolyl hydroxylation. EGLN2 encodes an enzyme responsible for this posttranslational modification. Alternative splicing of EGLN2 results in three transcript variants encoding different isoforms. The hypoxia inducible factor (HIF) is a transcriptional complex which is involved in oxygen homeostasis. At normal oxygen levels, the alpha subunit of HIF is targeted for degration by prolyl hydroxylation. This gene encodes an enzyme responsible for this posttranslational modification. Multiple alternatively spliced variants, encoding the same protein, have been identified. Alias Symbols: DKFZp434E026, EIT6, HIFPH1, HPH-3, PHD1, HPH-1, HIF-PH1 Protein Interaction Partner: SRPK2, CEP192, IKBKG, FAM46A, EPAS1, A2M, MAGEA11, SIAH2, LPP, WTIP, AJUBA, LIMD1, TRIP6, SPRY2, PRPF19, EGLN3, EGLN2, HIF1A, HIF3A, MOB4, POLR2A, Protein Size: 407
Molecular Weight:	44 kDa
Gene ID:	112398
NCBI Accession:	NM_053046, NP_444274
UniProt:	Q96KS0
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Cell RedoxHomeostasis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 407 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

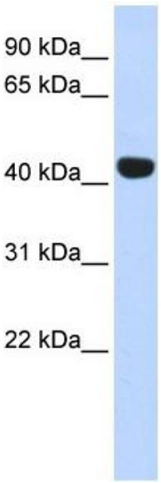
Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-EGLN2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:12500 Positive Control: Human Muscle