DATASHEET

HIF PHD3 Rabbit Monoclonal Antibody(C1004)

CAT. NO. AMA00616

KEY FEATURES

Target	HIF PHD3	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Prolyl hydroxylase that mediates hydroxylation of proline residues in target proteins, such as PKM, TELO2, ATF4, GPX4 and HIF1A . Target proteins are preferentially recognized via a LXXLAP motif. 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 .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to HIF PHD3
Specificity	Recognizes endogenous levels of HIF PHD3 protein
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human HIF PHD3. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 27 kD; Observed: 27 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Alternative Names	Egl nine homolog 3; HPH-1; Hypoxia-inducible factor prolyl hydroxylase 3; HIF-PH3; HIF-prolyl hydroxylase 3; HPH-3; Prolyl hydroxylase domain-containing protein 3; PHD3
Gene Symbol	EGLN3
Entrez Gene	112399(Human); 112407(Mouse); 54702(Rat)
SwissProt	Q9H6Z9(Human); Q91UZ4(Mouse); Q62630(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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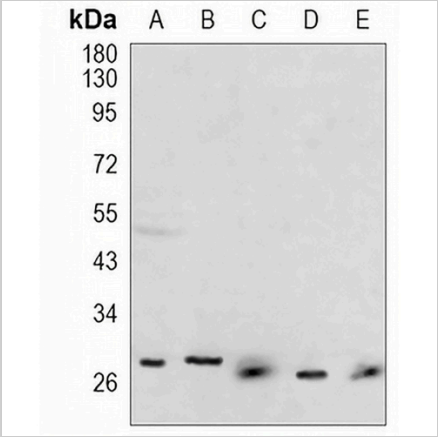

Western blot analysis of HIF PHD3 expression in HEK293T (A), Hela (B), mouse kidney (C), mouse muscle (D), rat kidney (E) whole cell lysates. (Predicted band size: 27 kD; Observed band size: 27 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.