Datasheet for ABIN3021560

anti-EGLN1 antibody

6 Images

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Overview

Quantity:	100 µL
Target:	EGLN1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This EGLN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant protein of human EGLN1
Isotype:	IgG
Purification:	Affinity purification

Target Details

Target:	EGLN1
Alternative Name:	EGLN1 (EGLN1 Products)
Background:	PHD1 (Egln2), PHD-2 (Egln1), and PHD3 (Egln3) are members of the Egln family of proline hydroxylases. They function as oxygen sensors that catalyze the hydroxylation of HIF on prolines 564 and 402, initiating the first step of HIF degradation through the VHL/ubiquitin pathway. PHD1 is highly expressed in a wide array of tissues whereas PHD2 and PHD3 are expressed mainly in heart and skeletal muscle. The mRNA levels of PHD are upregulated by HIF

Target Details

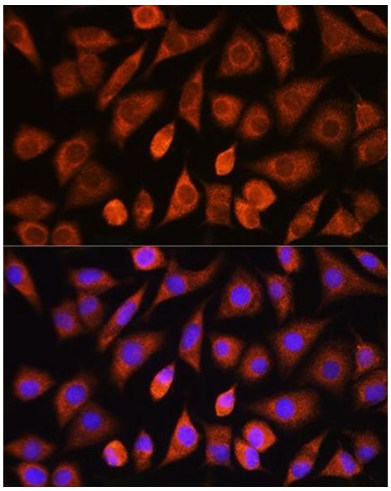
	through the hypoxia-response element under low oxygen conditions. These three enzymes also exhibit different peptide specificity target proteins, PHD1 and PHD2 can hydroxylate both proline 402 and proline 564, but PHD3 can only hydroxylate proline 564. In addition to HIF, PHD enzymes have also has been shown to catalyze the hydroxylation of RNA polymerase subunits and myogenin. Synonyms: EGLN1, C1orf12, DKFZp761F179, ECYT3, HIFPH2, HPH2, PHD2, SM-20, SM20, ZMYND6
Gene ID:	54583
UniProt:	Q9GZT9
Pathways:	cAMP Metabolic Process, Warburg Effect

Application Details

Application Notes:	Recommended dilutions: WB: 1:500-1:2000, IHC: 1:50-1:200
Restrictions:	For Research Use only

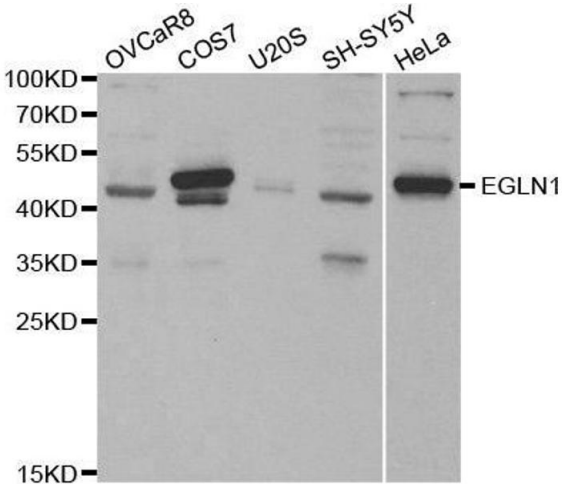
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C/-80 °C



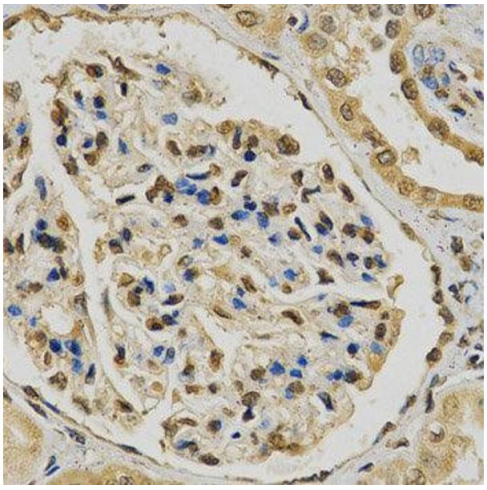
Immunofluorescence

Image 1. Immunofluorescence analysis of L929 cells using PHD2 antibody (ABIN3021559, ABIN3021560, ABIN3021561 and ABIN6215242) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using EGLN1 antibody.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human kidney using EGLN1 antibody at dilution of 1:200 (x400 lens)

Please check the product details page for more images. Overall 6 images are available for ABIN3021560.