

Product datasheet

Anti-PHD2 / prolyl hydroxylase antibody - C-terminal ab226890

[4 Images](#)

Overview

Product name	Anti-PHD2 / prolyl hydroxylase antibody - C-terminal
Description	Rabbit polyclonal to PHD2 / prolyl hydroxylase - C-terminal
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-Fr
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human PHD2/ prolyl hydroxylase (C terminal). The exact sequence is proprietary. Conjugated to a protein carrier. Database link: Q9GZT9
Positive control	IHC-Fr: Adult mouse cerebellum tissue. WB: HeLa, untreated and treated with cobalt (II) chloride, whole cell extracts. ICC/IF: DIV9 rat E18 primary cortical neuron, U-87 MG cells.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.</p>

Properties

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab226890** in the following tested applications.

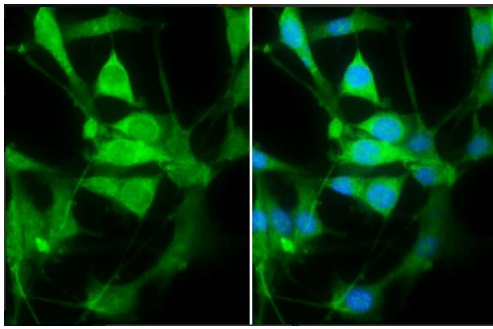
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.
WB		1/500 - 1/3000. Predicted molecular weight: 46 kDa.
IHC-Fr		1/100 - 1/1000.

Target

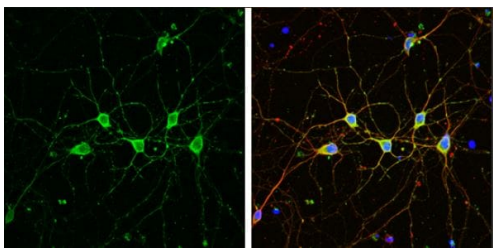
Function	Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro-564', and HIF-2 alpha. Functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal degradation via the von Hippel-Lindau ubiquitination complex.
Tissue specificity	According to PubMed:11056053, widely expressed with highest levels in skeletal muscle and heart, moderate levels in pancreas, brain (dopaminergic neurons of adult and fetal substantia nigra) and kidney, and lower levels in lung and liver. According to PubMed:12351678 widely expressed with highest levels in brain, kidney and adrenal gland. Expressed in cardiac myocytes, aortic endothelial cells and coronary artery smooth muscle.
Involvement in disease	Defects in EGLN1 are the cause of erythrocytosis familial type 3 (ECYT3) [MIM:609820]. ECYT3 is an autosomal dominant disorder characterized by increased serum red blood cell mass, elevated serum hemoglobin and hematocrit, and normal serum erythropoietin levels.
Sequence similarities	Contains 1 Fe2OG dioxygenase domain. Contains 1 MYND-type zinc finger.

Images



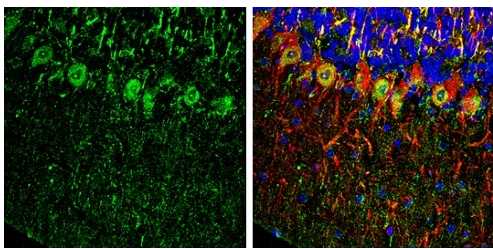
U-87 MG cells stained for PHD2 (green) using ab226890 at 1/500 dilution in ICC/IF.

Immunocytochemistry/ Immunofluorescence - Anti-PHD2 / prolyl hydroxylase antibody - C-terminal (ab226890)



IV9 rat E18 primary cortical neuron cells stained for PHD2 (green) using ab226890 at 1/500 dilution in ICC/IF.

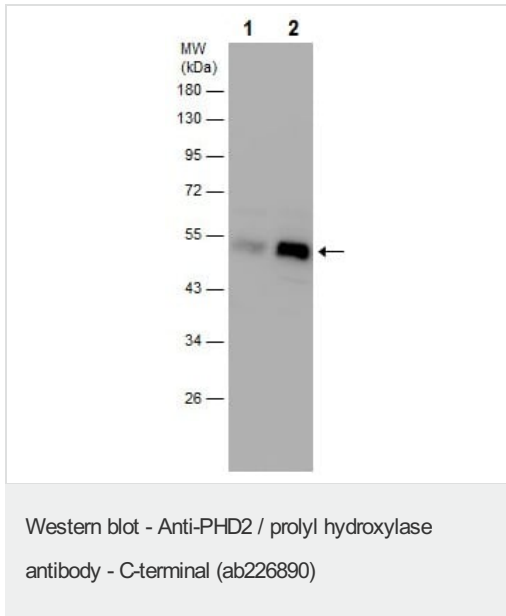
Immunocytochemistry/ Immunofluorescence - Anti-PHD2 / prolyl hydroxylase antibody - C-terminal (ab226890)



Frozen-sectioned adult mouse cerebellum tissue stained for PHD2 / prolyl hydroxylase using ab226890 at 1/250 dilution in immunohistochemical analysis.

Red: NF-H, stained by NF-H antibody diluted at 1/500.
Blue: DAPI.

Immunohistochemistry (Frozen sections) - Anti-PHD2 / prolyl hydroxylase antibody - C-terminal (ab226890)



All lanes : Anti-PHD2 / prolyl hydroxylase antibody - C-terminal (ab226890) at 1/2000 dilution

Lane 1 : Untreated HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell extract

Lane 2 : HeLa (human epithelial cell line from cervix adenocarcinoma) treated with 200 μ M cobalt (II) chloride for 24 hours whole cell extract

Lysates/proteins at 30 μ g per lane.

Predicted band size: 46 kDa

10% SDS-PAGE gel.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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