

Product datasheet

Anti-PHD2 / prolyl hydroxylase antibody ab4561

★★★★★ 2 Abreviews 17 References 画像数 2

製品の概要

製品名	Anti-PHD2 / prolyl hydroxylase antibody
製品の詳細	Rabbit polyclonal to PHD2 / prolyl hydroxylase
由来種	Rabbit
特異性	Specific for HIF prolyl hydroxylase 2.
アプリケーション	適用あり: ICC/IF, IP, WB
種交差性	交差種: Human
免疫原	A synthetic peptide made to an internal fragment (between aa residues 1-50) of human HIF prolyl hydroxylase 2.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
精製度	Immunogen affinity purified
ポリモノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab4561** in the following tested applications.

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

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 5 µg/ml.
IP	★★★★★	Use at an assay dependent concentration.
WB	★★★★★	1/1000. Detects a band of approximately 46 kDa (predicted molecular weight: 46 kDa).

ターゲット情報

機能

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.

組織特異性

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.

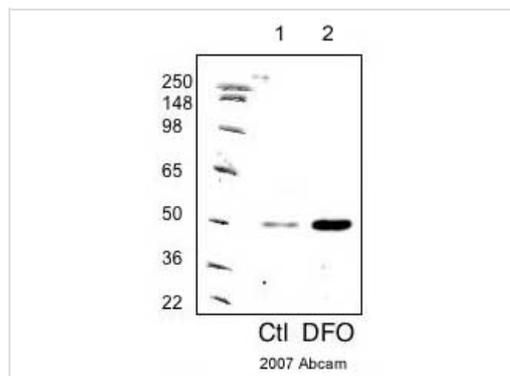
関連疾患

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.

配列類似性

Contains 1 Fe2OG dioxygenase domain.
Contains 1 MYND-type zinc finger.

画像



Western blot - Anti-PHD2 / prolyl hydroxylase antibody (ab4561)

This image is courtesy of an anonymous Abreview

All lanes : Anti-PHD2 / prolyl hydroxylase antibody (ab4561) at 1/1000 dilution

Lane 1 : U2OS osteosarcoma cells (untreated) - whole cell lysate

Lane 2 : U2OS osteosarcoma cells (100uM DFO for 24 hours) - whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

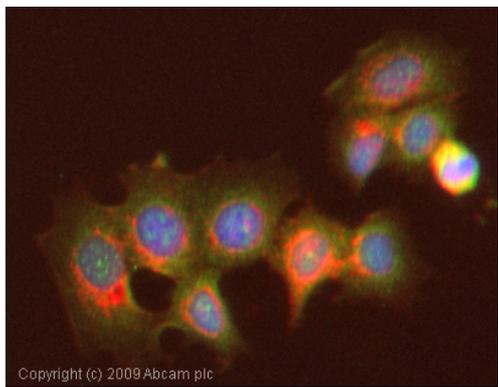
All lanes : HRP conjugated goat anti-rabbit

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 46 kDa

Observed band size: 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PHD2 / prolyl hydroxylase antibody (ab4561)

ICC/IF image of ab4561 stained MCF7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab4561, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors