


### Anti-PHD3 antibody ab30782

★★★★★ [3 Abreviews](#) [17 References](#) [3 图像](#)

#### 概述

产品名称	Anti-PHD3抗体
描述	兔多克隆抗体to PHD3
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide corresponding to Human PHD3 aa 50-150 (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab30781</a> )
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&amp;As</p>

#### 性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS  Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
纯度	Immunogen affinity purified
克隆	多克隆

同种型IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab30782于以下的经测试应用

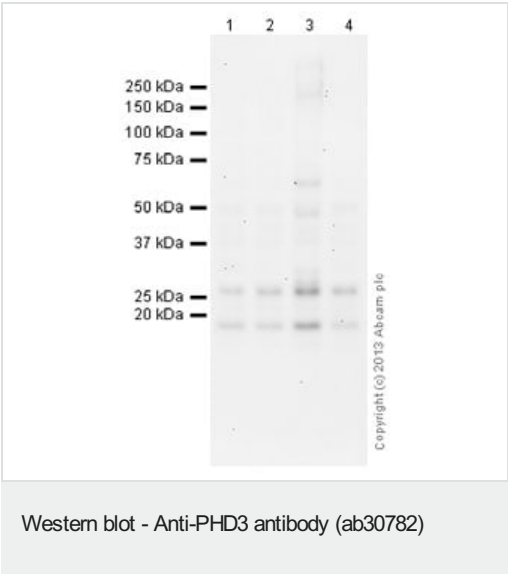
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 5 µg/ml.
WB	★★★★★ (2)	Use a concentration of 1 µg/ml. Detects a band of approximately 27 kDa (predicted molecular weight: 27 kDa).

靶标

功能	Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF-1 alpha at '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. May play a role in cell growth regulation in muscle cells and in apoptosis in neuronal tissue. Promotes cell death through a caspase-dependent mechanism.
组织特异性	Widely expressed at low levels. Expressed at higher levels in heart (cardiac myocytes, aortic endothelial cells and coronary artery smooth muscle) and placenta.
序列相似性	Contains 1 Fe2OG dioxygenase domain.
细胞定位	Cytoplasm. Nucleus.

图片



Western blot - Anti-PHD3 antibody (ab30782)

All lanes : Anti-PHD3 antibody (ab30782) at 1 µg/ml

Lane 1 : HeLa-Vehicle treated (Negative Control) Whole Cell Lysate (**ab116321**)

Lane 2 : Hela-DFO treated (0.5mM, 24h) Whole Cell Lysate (**ab116322**)

Lane 3 : Human HeLa Nuclear DFO treated

Lane 4 : Human HeLa Cytoplasmic DFO treated

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

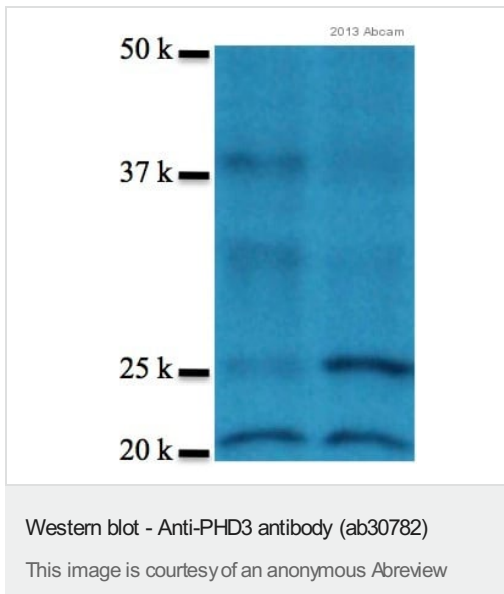
**Predicted band size:** 27 kDa

**Observed band size:** 27 kDa

**Additional bands at:** 18 kDa (possible non-specific binding)

**Exposure time:** 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab30782 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



**All lanes :** Anti-PHD3 antibody (ab30782) at 1/1000 dilution

**Lane 1 :** Mouse embryonic fibroblast cell lysate. Treated 21% O<sub>2</sub> for 24 hours

**Lane 2 :** Mouse embryonic fibroblast cell lysate. Treated 1% O<sub>2</sub> for 24 hours

Lysates/proteins at 5 µg per lane.

#### **Secondary**

**All lanes :** Goat polyclonal anti-rabbit HRP-conjugate at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 27 kDa

**Exposure time:** 30 seconds



Immunocytochemistry/ Immunofluorescence - Anti-PHD3 antibody (ab30782)

ICC/IF image of ab30782 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 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 ab30782 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (**ab96899**) 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. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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