


### Anti-PHD1/prolyl hydroxylase antibody [EPR2745] ab108980

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **15 References** 画像数 6

#### 製品の概要

製品名	Anti-PHD1/prolyl hydroxylase antibody [EPR2745]
製品の詳細	Rabbit monoclonal [EPR2745] to PHD1/prolyl hydroxylase
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), WB, IHC-P, ICC/IF <b>適用なし:</b> IP
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	A549, HeLa, and MCF-7 cell lysates Human ovarian adenocarcinoma tissue Human testis tissue
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

#### 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. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR2745

アイソタイプIgG

アプリケーション

The Abpromise guarantee      Abpromise保証は、 次のテスト済みアプリケーションにおけるab108980の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

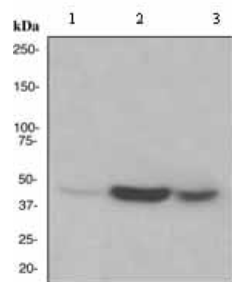
アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/10 - 1/100. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 44 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform antigen retrieval
ICC/IF		1/100 - 1/250.

追加情報      Is unsuitable for IP.

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. May play a role in cell growth regulation. Isoform p40 and isoform p43 exhibit the same level of activity.
組織特異性	Expressed abundantly in all tissues with highest expression in testis. Expressed in hormone responsive tissues, including normal and cancerous mammary, ovarian and prostate epithelium.
配列類似性	Contains 1 Fe2OG dioxygenase domain.
細胞内局在	Cytoplasm. Nucleus.

画像



Western blot - Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980)

**All lanes :** Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980) at 1/1000 dilution

**Lane 1 :** A549 cell lysate

**Lane 2 :** HeLa cell lysate

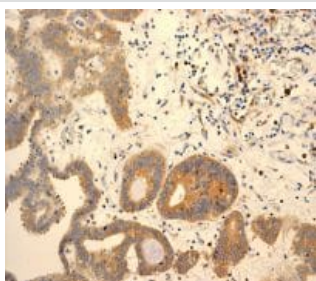
**Lane 3 :** MCF-7 cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Standard HRP labelled goat anti-rabbit at 1/2000 dilution

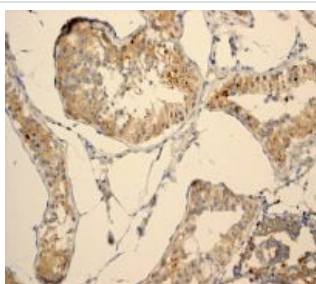
**Predicted band size:** 44 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980)

Immunohistochemical analysis of paraffin-embedded Human ovarian adenocarcinoma tissue using ab108980

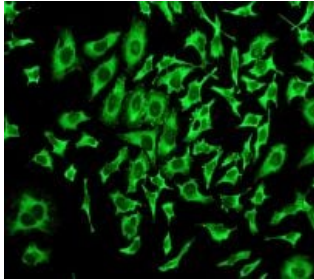
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980)

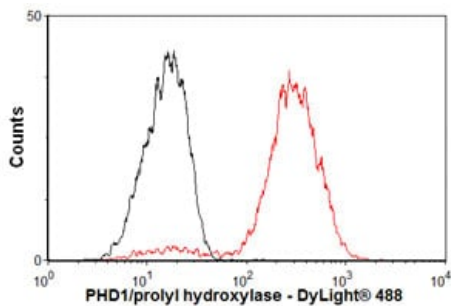
Immunohistochemical analysis of paraffin-embedded Human testis tissue using ab108980

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980)

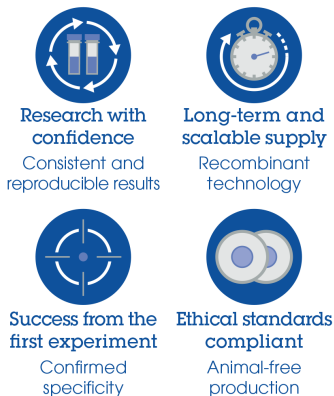
Immunofluorescent staining of HeLa cells using ab108980



Flow Cytometry (Intracellular) - Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980)

Overlay histogram showing HeLa cells stained with ab108980 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab108980, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10<sup>6</sup> cells) used under the same conditions. Acquisition of >5,000 events was performed.

### Why choose a recombinant antibody?



Anti-PHD1/prolyl hydroxylase antibody [EPR2745] (ab108980)

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

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