

Anti-PHD1/prolyl hydroxylase antibody [EPR2746] ab113077

リコンビナント **RabMAb**

★★★★★ **2 Abreviews** **5 References** 画像数 10

製品の概要

製品名	Anti-PHD1/prolyl hydroxylase antibody [EPR2746]
製品の詳細	Rabbit monoclonal [EPR2746] to PHD1/prolyl hydroxylase
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P, ICC/IF
種交差性	交差種: Mouse, Rat, Human
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	WB: A549, HeLa and MCF-7 cell lysates, Human fetal heart, Mouse brain, Mouse heart, Rat brain, Rat heart tissue lysates IHC-P: Mouse testis, Rat spleen, Human breast carcinoma and Human lung carcinoma tissue ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
バッファー	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR2746
アイソタイプ	IgG

アプリケーション

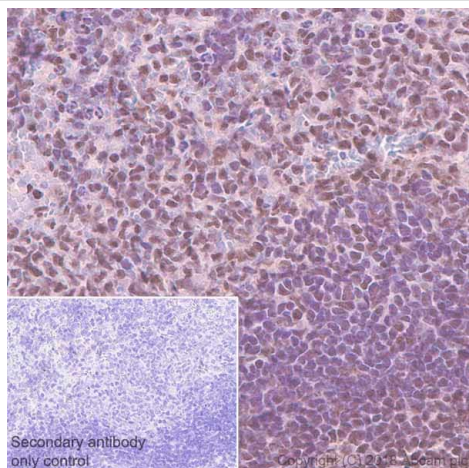
The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab113077の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/30.
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 44 kDa (predicted molecular weight: 44 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols.</u> For unpurified use at 1/100 - 1/250.
ICC/IF		1/50 - 1/100.

ターゲット情報

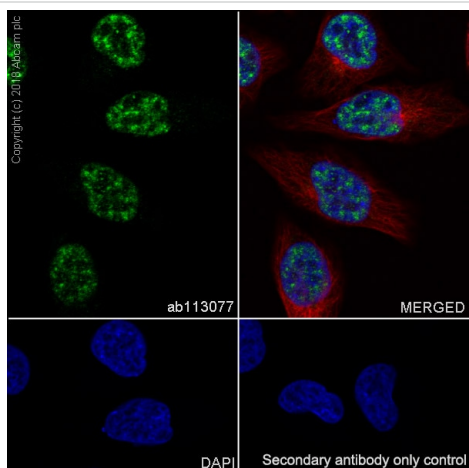
機能	Catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. Hydroxylates HIF-1 alpha at 'Pro-402' and 'Pro-564', and HIF-2 alpha. Functions as a cellular oxygen sensor and, under normoxic conditions, targets HIF through the hydroxylation for proteasomal 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



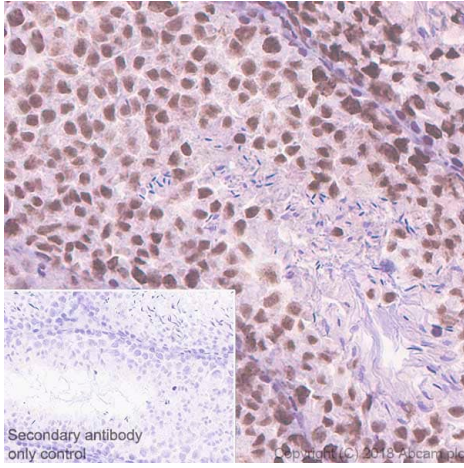
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Rat spleen tissue sections labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1:50 dilution (5.14 $\mu\text{g/ml}$). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



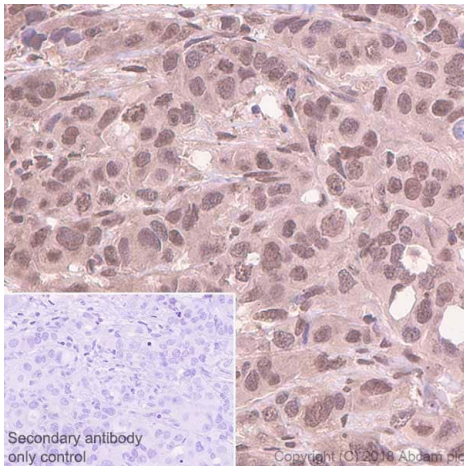
Immunocytochemistry/ Immunofluorescence - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) cells labeling PHD1/prolyl hydroxylase with purified ab113077 at 1/50 dilution (5 $\mu\text{g/mL}$). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) 1/200 (2.5 $\mu\text{g/mL}$). Goat anti rabbit IgG (Alexa Fluor[®] 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 $\mu\text{g/mL}$) dilution. DAPI (blue) was used as nuclear counterstain. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) 1/200 (2.5 $\mu\text{g/mL}$) was used as the secondary antibody only control.



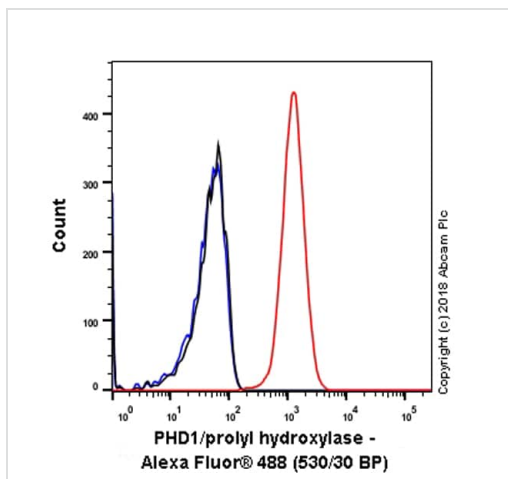
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse testis tissue sections labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1:50 dilution (5.14 $\mu\text{g/ml}$). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



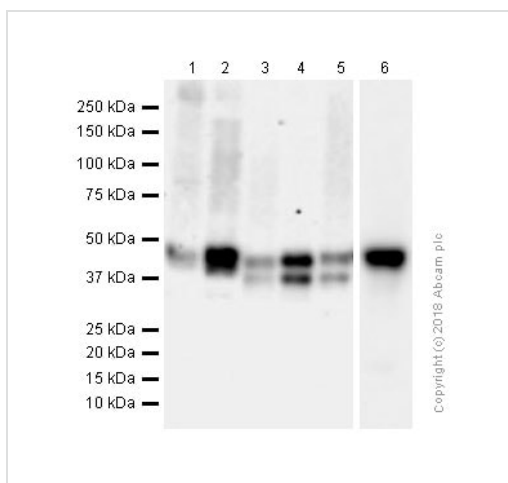
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human breast cancer tissue sections labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1:50 dilution (5.14 $\mu\text{g/ml}$). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Flow Cytometry (Intracellular) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling PHD1/prolyl hydroxylase with Purified ab113077 at 1/30 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

All lanes : Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077) at 1/1000 dilution (Purified)

Lane 1 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : Human fetal heart lysates

Lane 3 : Mouse brain lysates

Lane 4 : Mouse heart lysates

Lane 5 : Rat brain lysates

Lane 6 : Rat heart lysates

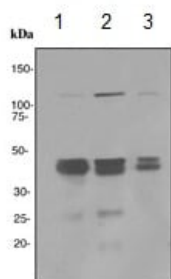
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 44 kDa

Observed band size: 40,43 kDa



Western blot - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

All lanes : Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077) at 1/1000 dilution

Lane 1 : A549 cell lysates

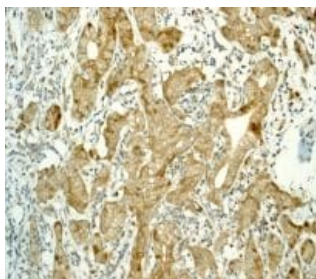
Lane 2 : HeLa cell lysates

Lane 3 : MCF-7 cell lysates

Lysates/proteins at 10 µg per lane.

Predicted band size: 44 kDa

This image was generated using the unpurified version of the product.

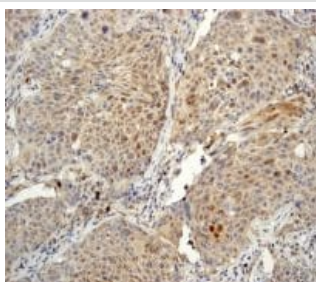


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

ab113077, at a 1/100 dilution, staining PHD1/prolyl hydroxylase in paraffin-embedded Human breast carcinoma tissue by Immunohistochemistry.

This image was generated using the unpurified version of the product.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHD1/prolyl hydroxylase antibody [EPR2746] (ab113077)

ab113077, at a 1/100 dilution, staining PHD1/prolyl hydroxylase in paraffin-embedded Human lung carcinoma tissue by Immunohistochemistry.

This image was generated using the unpurified version of the product.

Heat mediated antigen retrieval was performed before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PHD1/prolyl hydroxylase antibody [EPR2746]
(ab113077)

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