

Anti-PHD3 antibody [EPR17869] ab184714

リコンビナント **RabMAb**

3 References **画像数 10**

製品の概要

製品名	Anti-PHD3 antibody [EPR17869]
製品の詳細	Rabbit monoclonal [EPR17869] to PHD3
由来種	Rabbit
アプリケーション	適用あり: WB, ICC/IF, IP
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: PHD3 transfected HEK-293 whole cell lysate and PHD3 transfected HEK-293 whole cell lysate treated with 0.1 mM CoCl ₂ (Cobalt (II) chloride) for 4 hours. Human fetal liver lysate. A549, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates. Mouse pancreas, kidney and spleen lysates and Rat pancreas and brain lysates. MCF7 cell lysate treated with 0.5mM CoCl ₂ (Cobalt (II) chloride) for 6 hours. ICC/IF: A549 and PC-12 cells. IP: NIH/3T3 whole cell lysate.
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	<p>pH: 7.2</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	EPR17869
アイソタイプ	IgG

アプリケーション

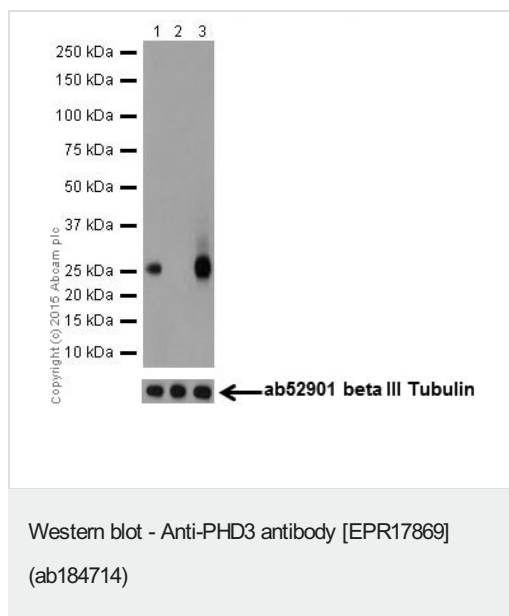
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab184714の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB		1/2000. Detects a band of approximately 27 kDa (predicted molecular weight: 27 kDa).
ICC/IF		1/250.
IP		1/70.

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-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.
組織特異性	Widely expressed at low levels. Expressed at higher levels in heart (cardiac myocytes, aortic endothelial cells and coronary artery smooth muscle) and placenta.
配列類似性	Contains 1 Fe2OG dioxygenase domain.
細胞内局在	Cytoplasm. Nucleus.

画像



All lanes : Anti-PHD3 antibody [EPR17869] (ab184714) at 1/10000 dilution

Lane 1 : PHD3 transfected HEK-293 (Human epithelial cells from embryonic kidney) whole cell lysate

Lane 2 : Empty vector (vector control) transfected HEK-293 whole cell lysate

Lane 3 : PHD3 transfected HEK-293 whole cell lysate treated with 0.1 mM CoCl₂ for 4 hours

Lysates/proteins at 10 µg per lane.

Secondary

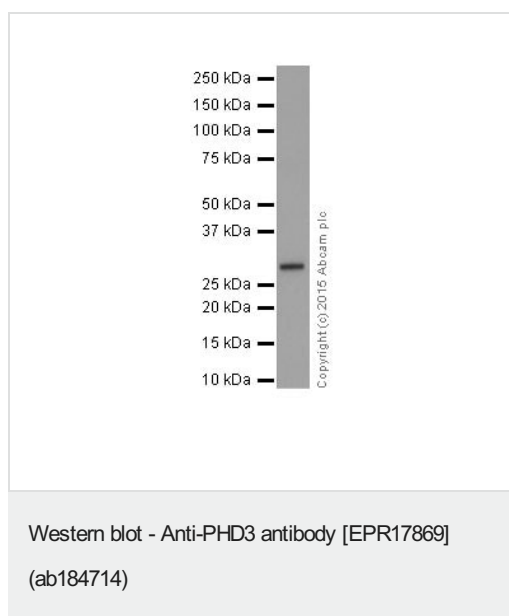
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.



Anti-PHD3 antibody [EPR17869] (ab184714) at 1/2000 dilution + Human fetal liver lysate at 10 µg

Secondary

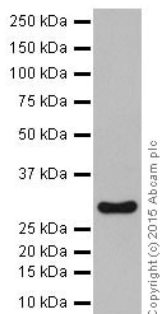
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-PHD3 antibody [EPR17869]
(ab184714)

Anti-PHD3 antibody [EPR17869] (ab184714) at 1/5000 dilution +
A549 (Human lung carcinoma) whole cell lysate at 10 µg

Secondary

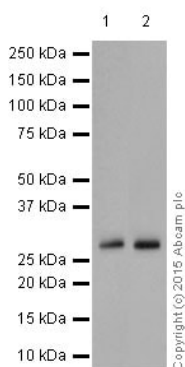
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 2 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-PHD3 antibody [EPR17869]
(ab184714)

All lanes : Anti-PHD3 antibody [EPR17869] (ab184714) at 1/2000
dilution

Lane 1 : Mouse pancreas lysate

Lane 2 : Rat pancreas lysate

Lysates/proteins at 10 µg per lane.

Secondary

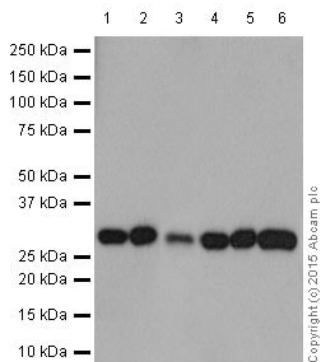
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at
1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-PHD3 antibody [EPR17869]
(ab184714)

All lanes : Anti-PHD3 antibody [EPR17869] (ab184714) at 1/2000 dilution

Lane 1 : Mouse kidney lysate

Lane 2 : Mouse spleen lysate

Lane 3 : Rat brain lysate

Lane 4 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 6 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

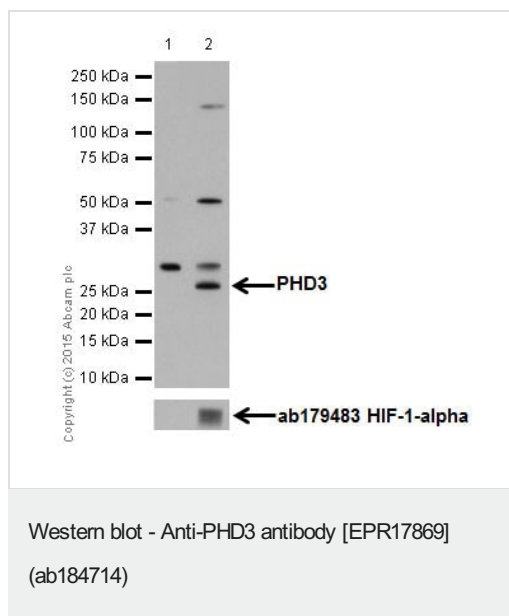
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-PHD3 antibody [EPR17869] (ab184714) at 1/2000 dilution

Lane 1 : Untreated MCF7 (Human breast adenocarcinoma cell line) whole cell lysate

Lane 2 : MCF7 cell lysate treated with 0.5mM CoCl₂ (Cobalt (II) chloride) for 6 hours

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

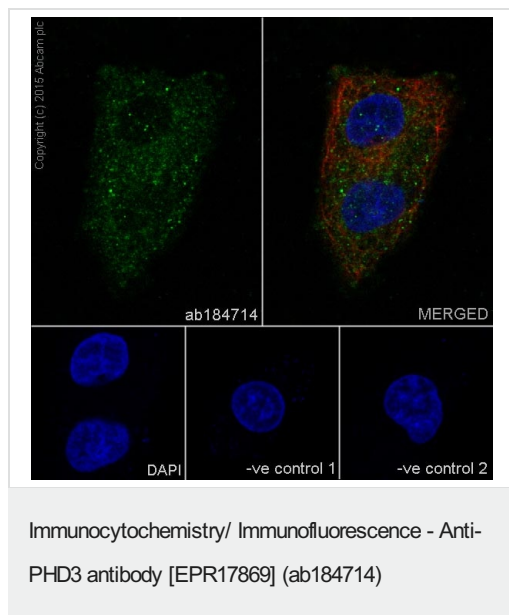
Predicted band size: 27 kDa

Observed band size: 27 kDa

Exposure time: 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.

PHD3 expression was induced by CoCl₂ treatment (PMID: 18337469).



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A549 (Human lung carcinoma) cells labeling PHD3 with ab184714 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing weakly cytoplasm and nuclear staining on A549 cell line.

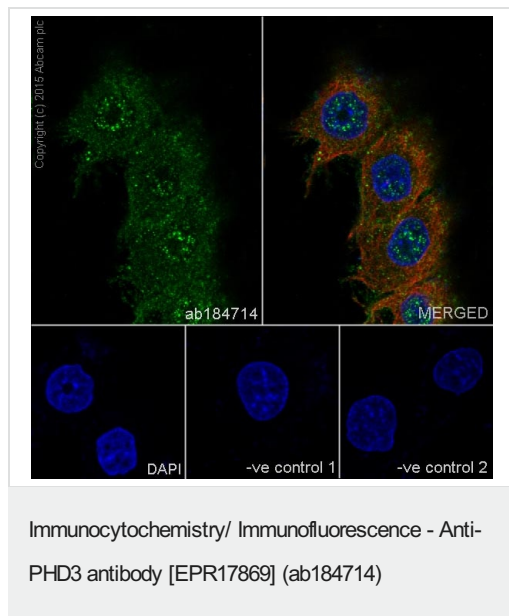
The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab184714 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized PC-12 (Rat adrenal gland pheochromocytoma) cells labeling PHD3 with ab184714 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green).

Confocal image showing weakly cytoplasm and nuclear staining on PC-12 cells.

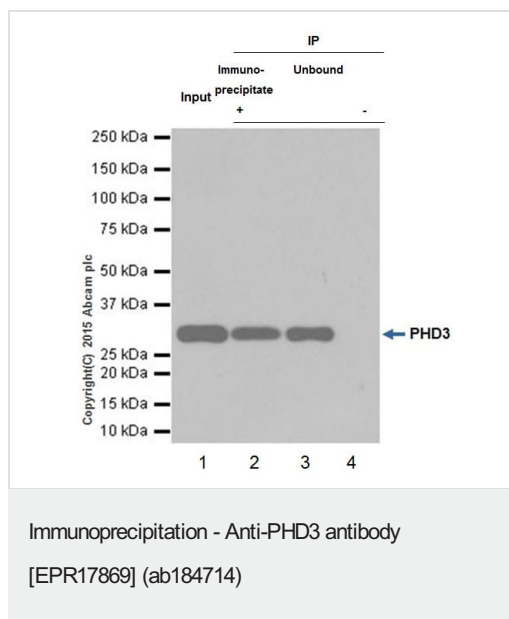
The nuclear counterstain is DAPI (blue).

Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution (red).

The negative controls are as follows:-

-ve control 1: ab184714 at 1/250 dilution followed by **ab150120** (AlexaFluor®594 Goat anti-Mouse secondary) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150077** (Alexa Fluor®488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



PHD3 was immunoprecipitated from 1mg of NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate with ab184714 at 1/70 dilution.

Western blot was performed from the immunoprecipitate using ab184714 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1/10000 dilution.

Lane 1: NIH/3T3 whole cell lysate 10ug (Input).

Lane 2: ab184714 IP in NIH/3T3 whole cell lysate.

Lane 3: NIH/3T3 whole cell lysate supernatant after capture (unbound).

Lane 4: Rabbit monoclonal IgG (**ab172730**) instead of ab184714 in NIH/3T3 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.

ab184714 is not a strong binder for IP - only a partial amount of the target protein in the lysate was immune-precipitated.

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-PHD3 antibody [EPR17869] (ab184714)

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