

# Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] - BSA and Azide free ab232565

KO 評価済 リコンビナント RabMAb

画像数 4

## 製品の概要

製品名	Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR3660(B)(2)] to PHD2 / prolyl hydroxylase - BSA and Azide free
由来種	Rabbit
アプリケーション	適用あり: WB, IP
種交差性	交差種: 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: Wild-type HAP1 cell lysate; HeLa and HepG2 cell lysates.
特記事項	<p>ab232565 is the carrier-free version of <a href="#">ab133630</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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> <p>For more information <a href="#">see here</a>.</p> <p>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>.</p>

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3660(B)(2)
アイソタイプ	IgG

## アプリケーション

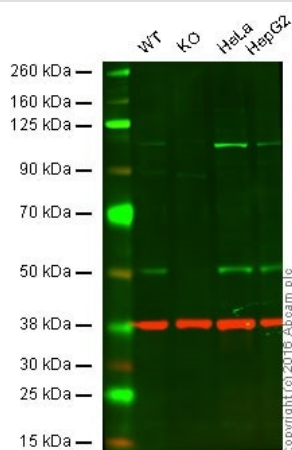
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アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Predicted molecular weight: 46 kDa.
IP		Use at an assay dependent concentration.

## 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 [EPR3660(B)(2)] - BSA and Azide free (ab232565)

**Lane 1:** Wild-type HAP1 cell lysate (20 µg)

**Lane 2:** PHD2 / prolyl hydroxylase knockout HAP1 cell lysate (20 µg)

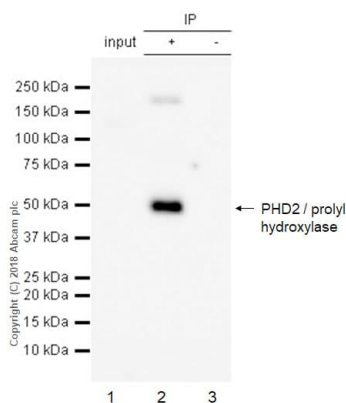
**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** HepG2 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - **ab133630** observed at 1X kDa. Red - loading control, **ab8245**, observed at 37 kDa.

**ab133630** was shown to specifically react with PHD2 / prolyl hydroxylase when PHD2 / prolyl hydroxylase knockout samples were used. Wild-type and PHD2 / prolyl hydroxylase knockout samples were subjected to SDS-PAGE. **ab133630** and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133630**).



Immunoprecipitation - Anti-PHD2 / prolyl hydroxylase antibody [EPR3660(B)(2)] - BSA and Azide free (ab232565)

**ab133630** (purified) at 1:40 dilution (2µg) immunoprecipitating PHD2 / prolyl hydroxylase in SH-SY5Y treated with 0.1mM cobalt chloride for 8 hours whole cell lysate.

**Lane 1 (input):** SH-SY5Y (Human neuroblastoma epithelial cell) treated with 0.1mM cobalt chloride for 8 hours whole cell lysate 10µg

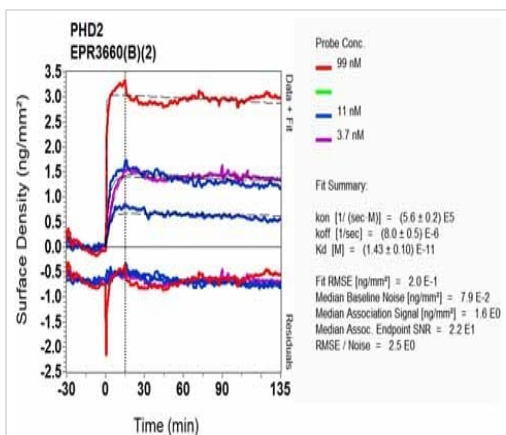
**Lane 2 (+):** **ab133630** & SH-SY5Y treated with 0.1mM cobalt chloride for 8 hours whole cell lysate

**Lane 3 (-):** Rabbit monoclonal IgG (**ab172730**) instead of **ab133630** in SH-SY5Y treated with 0.1mM cobalt chloride for 8 hours whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133630**).



SPR Scanning - Anti-PHD2 / prolyl hydroxylase  
antibody [EPR3660(B)(2)] - BSA and Azide free  
(ab232565)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

**[Click here to learn more about  \$K\_D\$](#)**

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**[ab133630](#)**).

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Anti-PHD2 / prolyl hydroxylase antibody  
[EPR3660(B)(2)] - BSA and Azide free (ab232565)

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