

## Product datasheet

# Anti-PHD1/prolyl hydroxylase antibody ab52726

1 References [画像数 1](#)

### 製品の概要

<b>製品名</b>	Anti-PHD1/prolyl hydroxylase antibody
<b>製品の詳細</b>	Mouse polyclonal to PHD1/prolyl hydroxylase
<b>由来種</b>	Mouse
<b>アプリケーション</b>	<b>適用あり:</b> WB
<b>種交差性</b>	<b>交差種:</b> Caenorhabditis elegans
<b>免疫原</b>	Recombinant fusion protein: RNPHEVMPVF RHRFAITWY MDKSERDKAL AKGKESDAAC, corresponding to amino acids 545-644 of Caenorhabditis elegans PHD1 <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>

### 特記事項

This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang *et al.* [PubMed: 1545867](#); Chambers and Johnston [PubMed 12910245](#); Barry and Johnston [PubMed: 9234514](#)). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>バッファー</b>	Preservative: None Constituents: 50% Glycerol, Whole serum
<b>精製度</b>	Whole antiserum
<b>一次抗体 備考</b>	This antibody was raised by a genetic immunization technique. Genetic immunization can be used to generate antibodies by directly delivering antigen-coding DNA into the animal, rather than injecting a protein or peptide (Tang <i>et al.</i> <a href="#">PubMed: 1545867</a> ; Chambers and Johnston

[PubMed 12910245](#); Barry and Johnston [PubMed: 9234514](#)). The animal's cells produce the protein, which stimulates the animal's immune system to produce antibodies against that particular protein. A vector coding for a partial fusion protein was used for genetic immunisation of a mouse and the resulting serum was tested in Western blot against an *E.coli* lysate containing that partial fusion protein. Genetic immunization offers enormous advantages over the traditional protein-based immunization method. DNA is faster, cheaper and easier to produce and can be produced by standard techniques readily amenable to automation. Furthermore, the antibodies generated by genetic immunization are usually of superior quality with regard to specificity, affinity and recognizing the native protein.

ポリ/モノ                      ポリクローナル  
アイソタイプ                      IgG

## アプリケーション

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Our [Abpromise guarantee](#) covers the use of **ab52726** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 38 kDa (predicted molecular weight: 44 kDa). This antibody has been tested in Western blot against an <i>E.coli</i> lysate containing the partial recombinant fusion protein used as an immunogen. We have no data on detection of endogenous protein.

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## ターゲット情報

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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.

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## 画像

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Western blot - Anti-PHD1/prolyl hydroxylase antibody (ab52726)

**All lanes :** Anti-PHD1/prolyl hydroxylase antibody (ab52726) at 1/1000 dilution

**Lane 1 :** Total protein extract from E. coli with ~50ng to 100ng of a recombinant fusion protein of an irrelevant antigen

**Lane 2 :** Total protein extract from E. coli with ~50ng to 500ng of the antigen (tagged recombinant fusion protein)

### Secondary

**All lanes :** Rabbit anti-mouse IgG + IgM, horseradish peroxidase conjugated at 1/5000 dilution

**Predicted band size:** 44 kDa

**Observed band size:** 38 kDa

The molecular weight of the band on the western blot does not correspond to the molecular weight of the natural protein because only a fragment of the gene is used.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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