

# Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free ab250235

KO 評価済 リコンビナント RabMAb

画像数 10

### 製品の概要

製品名	Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR14529(B)] to Peroxiredoxin 5 - BSA and Azide free
由来種	Rabbit
特異性	The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat.
アプリケーション	<b>適用あり:</b> IHC-P, IP, WB
種交差性	<b>交差種:</b> 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	IHC-P: human thyroid carcinoma tissue.
特記事項	ab250235 is the carrier-free version of <a href="#">ab180587</a> .

Our **carrier-free** 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.

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.

Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

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.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

## 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	EPR14529(B)
アイソタイプ	IgG

## アプリケーション

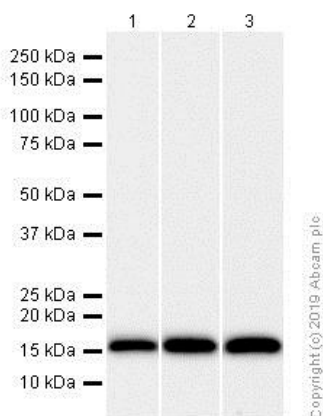
**The Abpromise guarantee**      **Abpromise保証は、**次のテスト済みアプリケーションにおけるab250235の使用に適用されます  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for mouse and rat. See <a href="#">IHC antigen retrieval protocols</a>
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 17 kDa (predicted molecular weight: 22 kDa).

## ターゲット情報

機能	Reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Involved in intracellular redox signaling.
組織特異性	Widely expressed.
配列類似性	Belongs to the peroxiredoxin 2 family. Contains 1 thioredoxin domain.
細胞内局在	Mitochondrion. Cytoplasm. Peroxisome.

## 画像



Western blot - Anti-Peroxiredoxin 5 antibody  
[EPR14529(B)] - BSA and Azide free (ab250235)

**All lanes :** Anti-Peroxiredoxin 5 antibody [EPR14529(B)]  
([ab180587](#)) at 1/10000 dilution

**Lane 1 :** HeLa (Human cervix adenocarcinoma epithelial cell)  
whole cell lysates

**Lane 2 :** Human brain lysates

**Lane 3 :** Rat brain lysates

Lysates/proteins at 20 µg per lane.

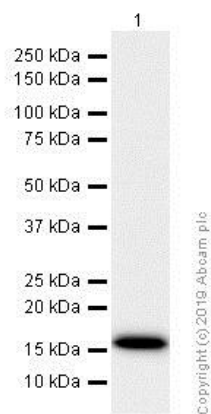
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000  
dilution

**Predicted band size:** 22 kDa

**Observed band size:** 17 kDa

This data was developed using [ab180587](#), the same antibody  
clone in a different buffer formulation.



Western blot - Anti-Peroxiredoxin 5 antibody  
[EPR14529(B)] - BSA and Azide free (ab250235)

Anti-Peroxiredoxin 5 antibody [EPR14529(B)] ([ab180587](#)) at  
1/5000 dilution + Mouse brain lysates at 15 µg

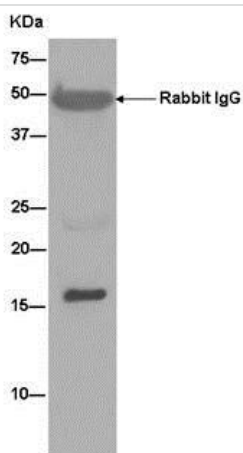
### Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 22 kDa

**Observed band size:** 17 kDa

This data was developed using [ab180587](#), the same antibody  
clone in a different buffer formulation.



Immunoprecipitation - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free (ab250235)

This data was developed using [ab180587](#), the same antibody clone in a different buffer formulation:

Immunoprecipitation analysis of Peroxiredoxin 5 pulled down from HeLa cell lysates using [ab180587](#) at 1/50 dilution.

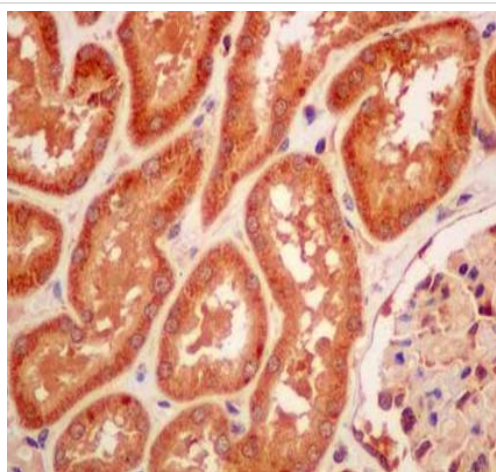
Anti-Peroxiredoxin 5 antibody [EPR14529(B)] ([ab180587](#)) at 1/1000 dilution + HeLa cell immunoprecipitated with [ab180587](#) at 1/50

#### Secondary

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

**Observed band size:** 17 kDa

**Additional bands at:** 50 kDa (possible IgG)

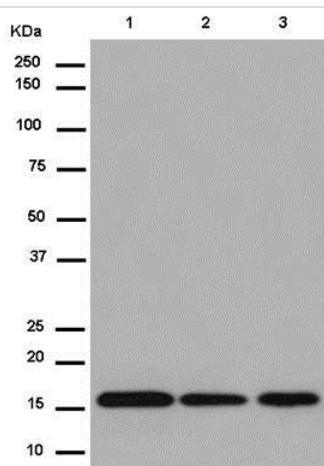


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free (ab250235)

This data was developed using [ab180587](#), the same antibody clone in a different buffer formulation:

Immunohistochemical analysis of paraffin embedded Human kidney tissue labeling Peroxiredoxin 5 with unpurified [ab180587](#) at 1/250.

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



Western blot - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free (ab250235)

**All lanes :** Anti-Peroxiredoxin 5 antibody [EPR14529(B)] ([ab180587](#)) at 1/5000 dilution

**Lane 1 :** HepG2 cell line lysate

**Lane 2 :** Jurkat cell line lysate

**Lane 3 :** A549 cell line lysate

Lysates/proteins at 20 µg per lane.

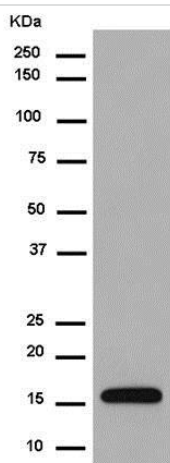
#### Secondary

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

**Predicted band size:** 22 kDa

**Observed band size:** 17 kDa

This data was developed using [ab180587](#), the same antibody clone in a different buffer formulation



Western blot - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free (ab250235)

Anti-Peroxiredoxin 5 antibody [EPR14529(B)] ([ab180587](#)) at 1/20000 dilution + HeLa cell line lysate at 20 µg

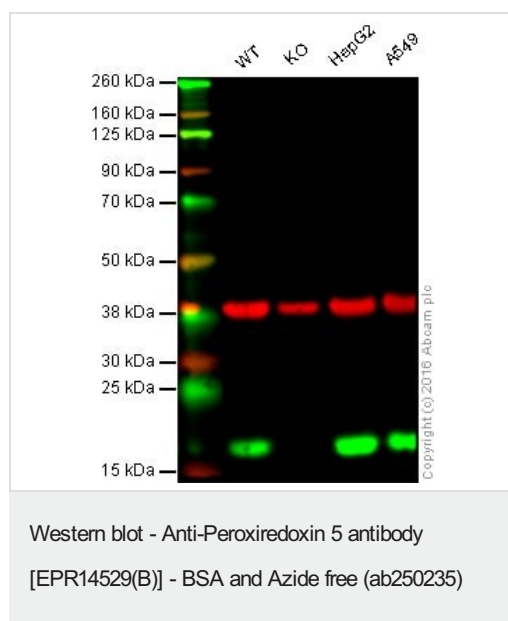
#### Secondary

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

**Predicted band size:** 22 kDa

**Observed band size:** 17 kDa

This data was developed using [ab180587](#), the same antibody clone in a different buffer formulation



This data was developed using [ab180587](#), the same antibody clone in a different buffer formulation:

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

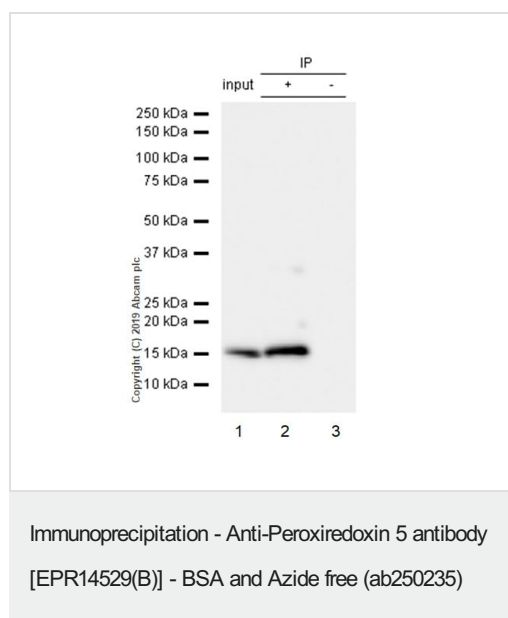
**Lane 2:** PRDX5 knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HepG2 whole cell lysate (20 µg)

**Lane 4:** A549 whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - [ab180587](#) observed at 17 kDa. Red - loading control, [ab8245](#), observed at 37 kDa.

[ab180587](#) was shown to specifically react with PRDX5 when PRDX5 knockout samples were used. Wild-type and PRDX5 knockout samples were subjected to SDS-PAGE. Ab180587 and [ab8245](#) (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots were developed with 800CW Goat anti Rabbit and 680CW Goat anti Mouse secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



[ab180587](#) (Purified) at 1:30 dilution (2 µg) immunoprecipitating Peroxiredoxin 5 in HeLa whole cell lysate.

Lane 1 (input): HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg

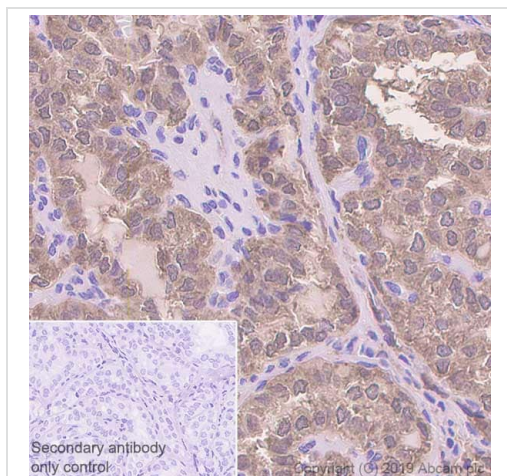
Lane 2 (+): [ab180587](#) & HeLa whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of [ab180587](#) in HeLa whole cell lysate

For western blotting, VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used 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 ([ab180587](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free (ab250235)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue sections labeling Peroxiredoxin 5 with purified **ab180587** at 1:500 dilution (1.18 µg/ml). Heat mediated antigen retrieval was performed using Bond™ Epitope Retrieval Solution 1 (pH 6.0). Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab180587**)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Peroxiredoxin 5 antibody [EPR14529(B)] - BSA and Azide free (ab250235)

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

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