abcam

Product datasheet

Anti-Peroxiredoxin 5 antibody [EPR14529(B)] ab180587





RabMAb

6 References 10 图像

概述

产**品名称** Anti-Peroxiredoxin 5抗体[EPR14529(B)]

描述 兔单克隆抗体[EPR14529(B)] to Peroxiredoxin 5

宿主 Rabbit

特异性 The mouse and rat recommendation is based on the WB results. We do not guarantee IHC-P for

mouse and rat.

适用于: WB, IHC-P, IP

种属反应性 与反应: Mouse, Rat, Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 HeLa, HepG2 and A549 cell line lysates; Human kidney tissue; Jurkat cells.

常规说明 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[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**[®] **patents**.

性能

形式 Liquid

存放说明 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.

存储溶液 Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

纯**度** Protein A purified

克隆 单克隆

克隆编号 EPR14529(B)

同种型 IgG

1

The Abpromise guarantee Abpromise™承诺保证使用ab180587于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000 - 1/10000. Detects a band of approximately 17 kDa (predicted molecular weight: 22 kDa).
IHC-P		1/100 - 1/250. 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 IHC antigen retrieval protocols
IP		1/50.

靶标

功能 Reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through

the thioredoxin system. Involved in intracellular redox signaling.

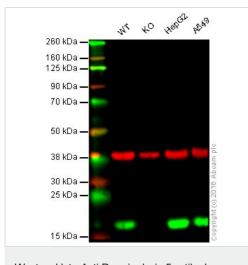
组织特异性 Widely expressed.

序列相似性 Belongs to the peroxiredoxin 2 family.

Contains 1 thioredoxin domain.

细胞定位 Mitochondrion. Cytoplasm. Peroxisome.

图片



Western blot - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)

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

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

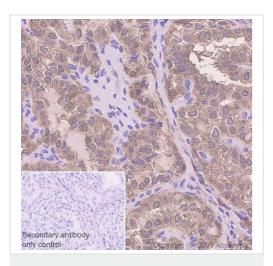
Lane 3: HepG2 whole cell lysate (20 µg)

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.

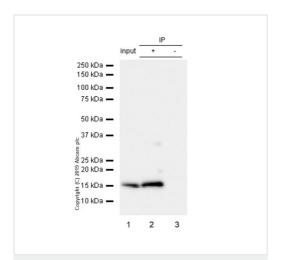
ab180587 was shown to specifically react with PRDX5 when PRDX5 knockout samples were used. Wild-type and PRDX5 knockout samples were subjected to SDS-PAGE. Ab180587 and ab8245 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1000 dilution and 1/10000 dilution respectively. Blots 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.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)

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.



Immunoprecipitation - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)

ab180587 (Purified) at 1:30 dilution (2 μ g) 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

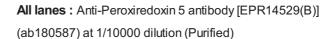
For western blotting, VeriBlot for IP Detection Reagent (HRP)

(ab131366) was used at 1:1000 dilution.

Blocking and diluting buffer: 5% NFDM/TBST.



Western blot - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)



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

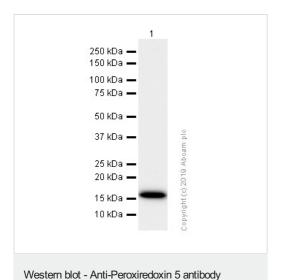
Lane 2: Human brain lysates
Lane 3: Rat brain lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution

Predicted band size: 22 kDa **Observed band size:** 17 kDa



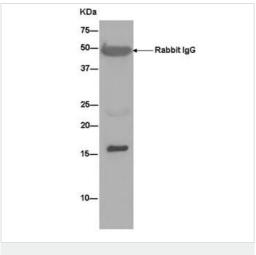
[EPR14529(B)] (ab180587)

Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587) at 1/5000 dilution (Purified) + 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



Immunoprecipitation - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)

Immunoprecipitation analysis of Peroxiredoxin 5 pulled down from HeLa cell lysates using ab180587 at 1/50 dilution.

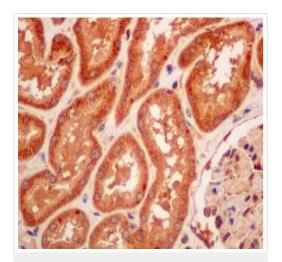
Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587) at 1/1000 dilution (Unpurified) + HeLa cell immunoprecipitated with ab180587 at 1/50.

Secondary

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

Observed band size: 17 kDa

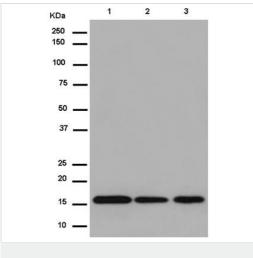
Additional bands at: 50 kDa (possible lgG)



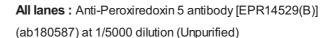
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)

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)] (ab180587)



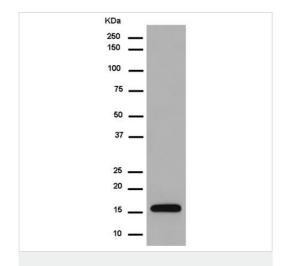
Lane 1 : HepG2 cell line lysate
Lane 2 : Jurkat cell line lysate
Lane 3 : A549 cell line lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 22 kDa **Observed band size:** 17 kDa



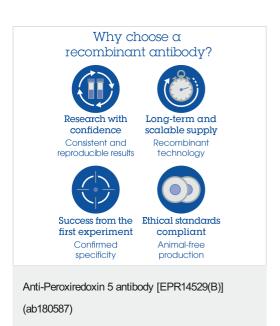
Western blot - Anti-Peroxiredoxin 5 antibody [EPR14529(B)] (ab180587)

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

Secondary

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

Predicted band size: 22 kDa **Observed band size:** 17 kDa



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

Our Abpromise to you: Quality guaranteed and expert technical support

- · Replacement or refund for products not performing as stated on the datasheet
- · Valid for 12 months from date of delivery
- · Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.cn/abpromise or contact our technical team.

Terms and conditions

· Guarantee only valid for products bought direct from Abcam or one of our authorized distributors