

Product datasheet

Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] ab128953

KO VALIDATED Recombinant RabMAb

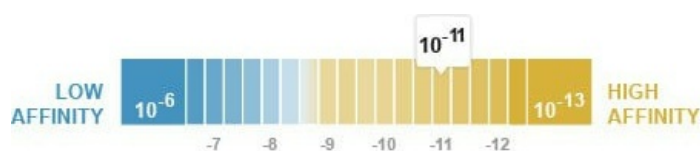
★★★★☆ 2 Abreviews 8 References 8 Images

Overview

Product name	Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115]
Description	Rabbit monoclonal [EPR8115] to Peroxiredoxin 3/PRDX3
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, 293T, MCF7 and A431 cell lysates. IHC-P: Human endometrium adenocarcinoma and Human liver tissues. Flow Cyt (intra): MCF7 cells IP: HeLa.
General notes	<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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 1.02 x 10 ⁻¹¹ M



[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR8115
Isotype	IgG

Applications

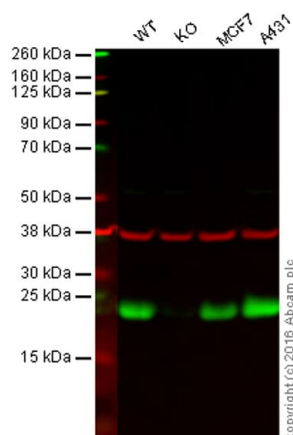
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab128953 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/1000. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (2)	1/10000 - 1/50000. Detects a band of approximately 26 kDa (predicted molecular weight: 28 kDa).
IP		1/100 - 1/500.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Function	Involved in redox regulation of the cell. Protects radical-sensitive enzymes from oxidative damage by a radical-generating system. Acts synergistically with MAP3K13 to regulate the activation of NF-kappa-B in the cytosol.
Sequence similarities	Belongs to the ahpC/TSA family. Contains 1 thioredoxin domain.
Cellular localization	Mitochondrion.

Images



Western blot - Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953)

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

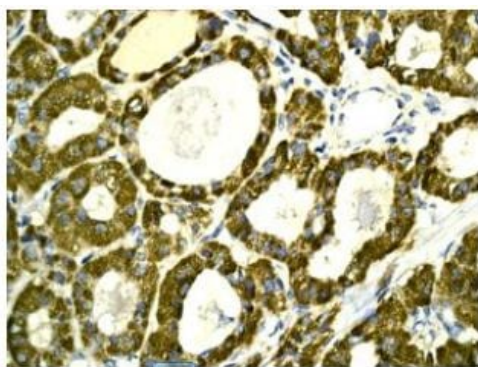
Lane 2: Peroxiredoxin 3/PRDX3 knockout HAP1 cell lysate (20 µg)

Lane 3: MCF7 cell lysate (20 µg)

Lane 4: A431 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab128953 observed at 24 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

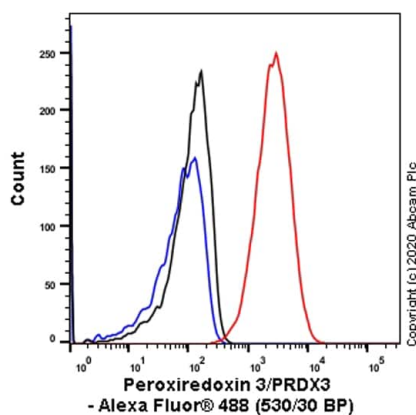
ab128953 was shown to specifically react with Peroxiredoxin 3/PRDX3 in wild-type HAP1 cells. No band was observed when Peroxiredoxin 3/PRDX3 knockout samples were examined. Wild-type and Peroxiredoxin 3/PRDX3 knockout samples were subjected to SDS-PAGE. ab128953 and **ab8245** (loading control to GAPDH) were both diluted 1/10,000 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 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953)

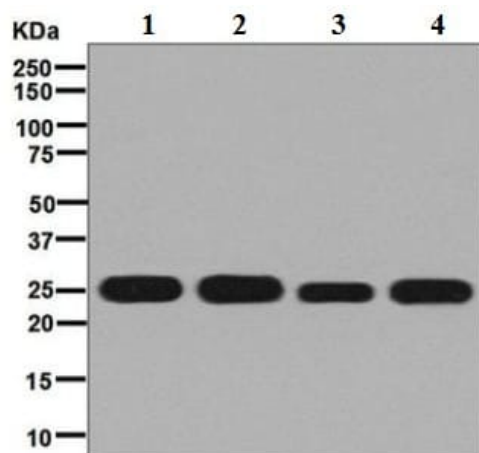
ab128953, at a 1/250 dilution, staining Peroxiredoxin 3/PRDX3 in paraffin embedded Human endometrium adenocarcinoma tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953)

Flow Cytometry analysis of MCF7 (Human breast adenocarcinoma epithelial cell) cells labeling Peroxiredoxin 3/PRDX3 with purified ab128953 at 1/1000 dilution (1 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953)

All lanes : Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : 293T (Human embryonic kidney epithelial cell) cell lysate

Lane 3 : MCF7 cell lysate

Lane 4 : A431 cell lysate

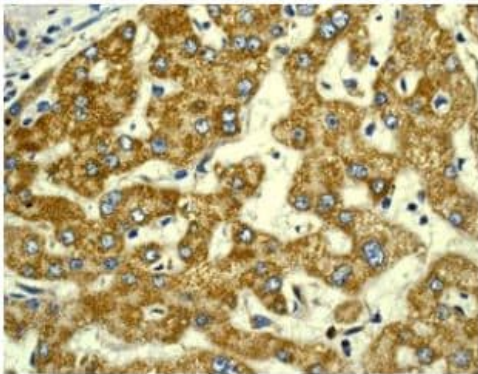
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 28 kDa

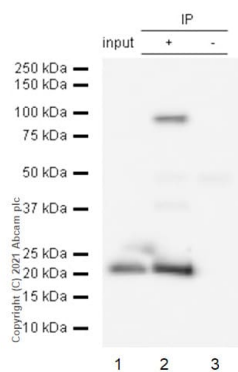
Observed band size: 26 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953)

ab128953, at a 1/250 dilution, staining Peroxiredoxin 3/PRDX3 in paraffin embedded Human liver tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunoprecipitation - Anti-Peroxiredoxin 3/PRDX3 antibody [EPR8115] (ab128953)

Peroxiredoxin 3/PRDX3 was immunoprecipitated from 0.35 mg HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg with 128953 at 1/50 dilution (2µg). VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

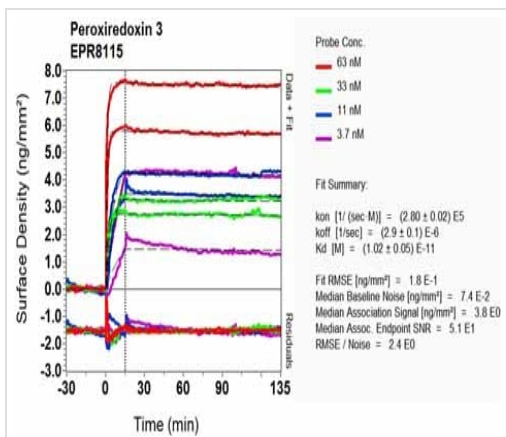
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate 10 µg

Lane 2: ab128953 IP in HeLa whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab128953 in HeLa whole cell lysate

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

Upper bands could be ubiquitinated forms (PMID:21795677)



SPR Scanning - Anti-Peroxiredoxin 3/PRDX3
antibody [EPR8115] (ab128953)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-Peroxiredoxin 3/PRDX3 antibody [EPR8115]
(ab128953)

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.com/abpromise> or contact our technical team.

Terms and conditions

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