


Product datasheet

Anti-Peroxiredoxin 6 antibody [EPR3755] - BSA and Azide free ab182190

KO VALIDATED Recombinant RabMAB

3 Images

Overview

Product name	Anti-Peroxiredoxin 6 antibody [EPR3755] - BSA and Azide free
Description	Rabbit monoclonal [EPR3755] to Peroxiredoxin 6 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, WB Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HAP1, HeLa, MCF-7, HepG2 and A549 cell lysates, Human brain tissue
General notes	<p>ab182190 is the carrier-free version of ab92322.</p> <p>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.</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 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.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] 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">- 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</p>

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3755
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab182190 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

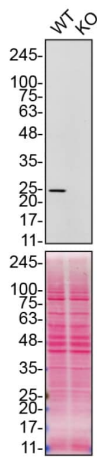
Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 25 kDa.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

Target

Function	Involved in redox regulation of the cell. Can reduce H ₂ O ₂ and short chain organic, fatty acid, and phospholipid hydroperoxides. May play a role in the regulation of phospholipid turnover as well as in protection against oxidative injury.
Sequence similarities	Belongs to the ahpC/TSA family. Rehydrin subfamily. Contains 1 thioredoxin domain.
Cellular localization	Cytoplasm. Lysosome. Cytoplasmic vesicle. Also found in lung secretory organelles.

Images



Western blot - Anti-Peroxiredoxin 6 antibody [EPR3755] - BSA and Azide free (ab182190)

All lanes : Anti-Peroxiredoxin 6 antibody [EPR3755] ([ab92322](#)) at 1/1000 dilution

Lane 1 : Wild-type HAP1 cell lysate

Lane 2 : PRDX6 knockout HAP1 cell lysate

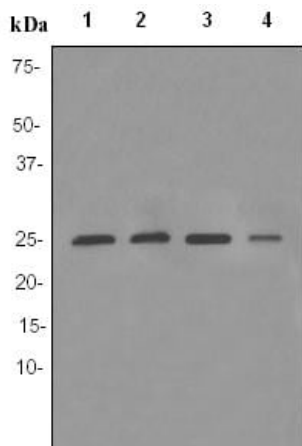
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 25 kDa

This data was developed using the same antibody in a different buffer formulation ([ab92322](#)).

[ab92322](#) was shown to react with PRDX6 in wild-type HAP1 cells in Western blot with loss of signal observed in a PRDX6 knockout cell line. Wild-type HAP1 and PRDX6 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with [ab92322](#) overnight at 4 °C at a 1/1000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 0.2µg/mL before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Western blot - Anti-Peroxiredoxin 6 antibody [EPR3755] - BSA and Azide free (ab182190)

All lanes : Anti-Peroxiredoxin 6 antibody [EPR3755] ([ab92322](#)) at 1/500 dilution

Lane 1 : HeLa cell lysate

Lane 2 : MCF7 cell lysate

Lane 3 : HepG2 cell lysate

Lane 4 : A549 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 25 kDa

This data was developed using [ab92322](#), the same antibody clone in a different buffer formulation.

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 6 antibody [EPR3755] - BSA and Azide free (ab182190)

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