


## Product datasheet

### Anti-Peroxiredoxin 6 antibody [EPR3754] ab133348

KO **VALIDATED** Recombinant RabMAb<sup>®</sup>

★★★★★ [2 Abreviews](#) [9 References](#) [9 Images](#)

#### Overview

<b>Product name</b>	Anti-Peroxiredoxin 6 antibody [EPR3754]
<b>Description</b>	Rabbit monoclonal [EPR3754] to Peroxiredoxin 6
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P <b>Unsuitable for:</b> IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Pig 
<b>Immunogen</b>	Synthetic peptide within Human Peroxiredoxin 6 aa 50-150. The exact sequence is proprietary.
<b>Positive control</b>	HAP1, HeLa, 293 and fetal liver lysates; Human brain tissue
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3754

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab133348 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
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 25 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

### Application notes

Is unsuitable for IP.

## Target

### Function

Involved in redox regulation of the cell. Can reduce H<sub>2</sub>O<sub>2</sub> 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.

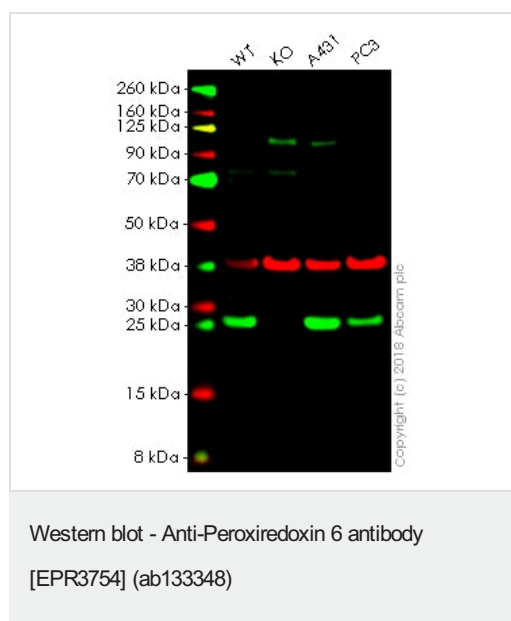
### Sequence similarities

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



**All lanes :** Anti-Peroxiredoxin 6 antibody [EPR3754] (ab133348) at 1/1000 dilution

**Lane 1 :** Wild-type HAP1 whole cell lysate

**Lane 2 :** PRDX6 (Peroxiredoxin 6) knockout HAP1 whole cell lysate

**Lane 3 :** A431 whole cell lysate

**Lane 4 :** PC3 whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 25 kDa

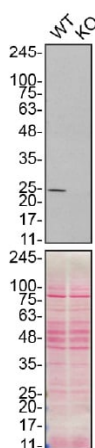
**Lanes 1 - 4:** Merged signal (red and green). Green - ab133348 observed at 25 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab133348 was shown to specifically react with Peroxiredoxin 6 in wild-type HAP1 cells as signal was lost in PRDX6 (Peroxiredoxin 6) knockout cells. Wild-type and PRDX6 (Peroxiredoxin 6) knockout samples were subjected to SDS-PAGE. Ab133348 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 6 antibody [EPR3754] (ab133348)

Immunohistochemical analysis of paraffin embedded normal Human stomach tissue using ab133348 showing +ve staining.

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



Western blot - Anti-Peroxiredoxin 6 antibody [EPR3754] (ab133348)

**All lanes :** Anti-Peroxiredoxin 6 antibody [EPR3754] (ab133348) at 1/1000 dilution

**Lane 1 :** Wild-type HAP1 cell lysate

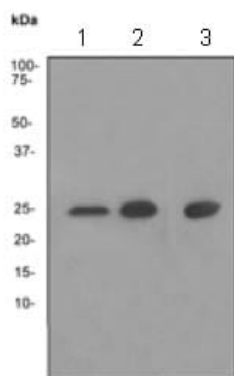
**Lane 2 :** PRDX6 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 25 kDa

ab133348 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 ab133348 overnight at 4 °C at a 1/1000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 0.2ug/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  
[EPR3754] (ab133348)

**All lanes** : Anti-Peroxiredoxin 6 antibody [EPR3754] (ab133348)

**Lane 1** : HeLa lysate

**Lane 2** : 293 lysate

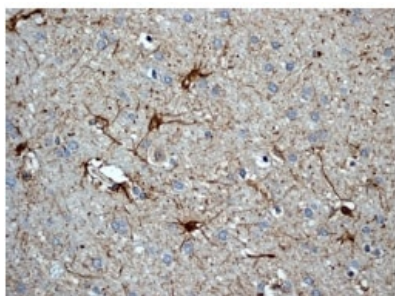
**Lane 3** : Fetal liver lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 25 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 6 antibody  
[EPR3754] (ab133348)

Immunohistochemical analysis of paraffin-embedded Human brain tissue labelling Peroxiredoxin 6 with ab133348 at 1/250 dilution.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 6 antibody  
[EPR3754] (ab133348)

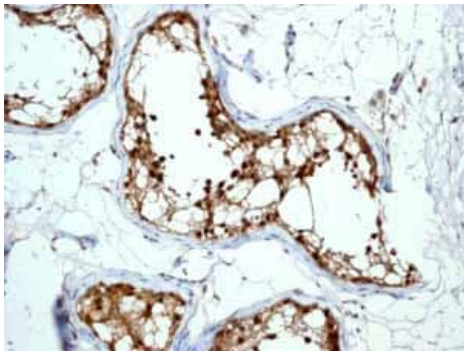
Immunohistochemical analysis of paraffin embedded normal Human liver tissue using ab133348 showing +ve staining.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 6 antibody  
[EPR3754] (ab133348)

Immunohistochemical analysis of paraffin embedded normal Human placenta tissue using ab133348 showing +ve staining.

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



Immunohistochemical analysis of paraffin embedded normal Human testis tissue using ab133348 showing +ve staining.

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peroxiredoxin 6 antibody [EPR3754] (ab133348)

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 [EPR3754] (ab133348)

**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