

Anti-PRX antibody [EPR24150-36] - BSA and Azide free ab278083

Recombinant RabMAb

13 Images

Overview

Product name	Anti-PRX antibody [EPR24150-36] - BSA and Azide free
Description	Rabbit monoclonal [EPR24150-36] to PRX - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, IHC-P Unsuitable for: Flow Cyt, ICC/IF, IP or WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human lung, cerebrum and skeletal muscle tissue; Mouse lung, cerebrum and skeletal muscle tissue; Rat lung and skeletal muscle tissue. IHC-Fr: Rat sciatic nerve and lung tissue; Mouse sciatic nerve and lung tissue
General notes	<p>ab278083 is the carrier-free version of ab259953.</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.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24150-36
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab278083 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
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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

Target

Function	Seems to be required for maintenance of peripheral nerve myelin sheath. May have a role in axon-glia interactions, possibly by interacting with the cytoplasmic domains of integral membrane proteins such as myelin-associated glycoprotein in the periaxonal regions of the Schwann cell plasma membrane. May have a role in the early phases of myelin deposition.
Tissue specificity	Isoform 1 and isoform 2 are found in sciatic nerve and Schwann cells.
Involvement in disease	Defects in PRX are a cause of Dejerine-Sottas syndrome (DSS) [MIM:145900]; also known as Dejerine-Sottas neuropathy (DSN) or hereditary motor and sensory neuropathy III (HMSN3). DSS is a severe degenerating neuropathy of the demyelinating Charcot-Marie-Tooth disease category, with onset by age 2 years. DSS is characterized by motor and sensory neuropathy with very slow nerve conduction velocities, increased cerebrospinal fluid protein concentrations, hypertrophic nerve changes, delayed age of walking as well as areflexia. There are both autosomal dominant and autosomal recessive forms of Dejerine-Sottas syndrome.
Sequence similarities	Belongs to the periaxin family. Contains 1 PDZ (DHR) domain.

Domain

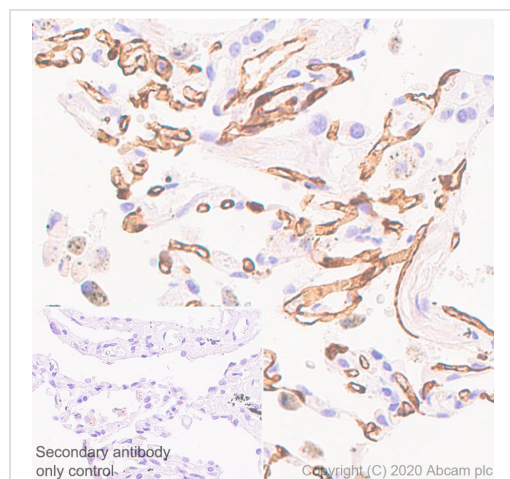
Has a remarkable domain of repetitive pentameric units sometimes followed by a tripeptide spacer, it may separate two functional basic and acidic domains.

The Arg/Lys-rich basic domain functions as a tripartite nuclear localization signal.

Cellular localization

Cytoplasm; Nucleus and Cell membrane. Associated with plasma membrane during myelination.

Images



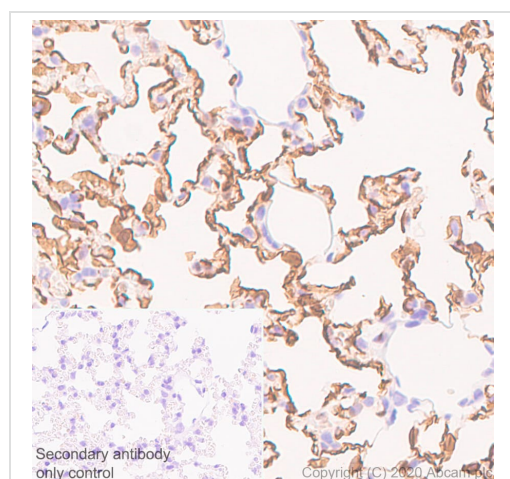
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using [ab259953](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human lung tissue labeling PRX with [ab259953](#) at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). Positive staining on the capillaries of human lung. The section was incubated with [ab259953](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®]RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®]Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



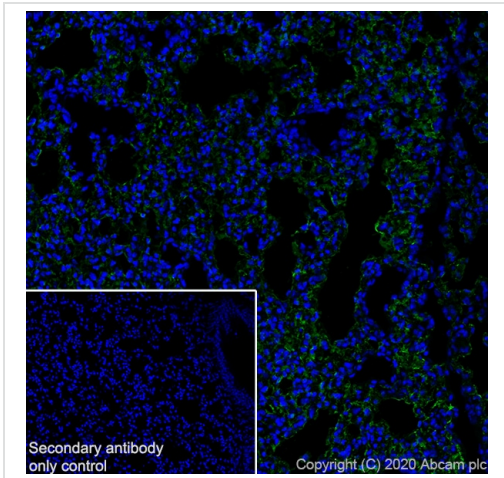
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using [ab259953](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse lung tissue labeling PRX with [ab259953](#) at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). Positive staining on the capillaries of mouse lung (PMID: 29968755). The section was incubated with [ab259953](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



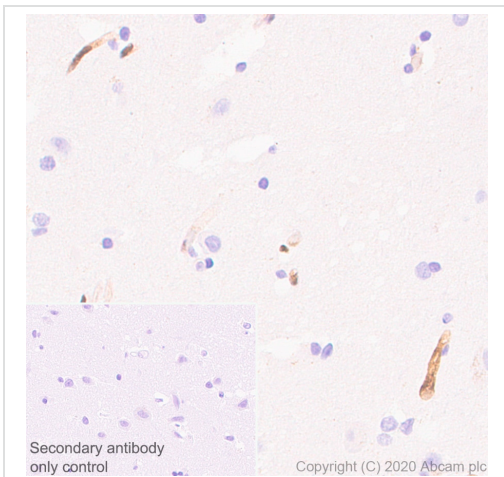
Immunohistochemistry (Frozen sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse lung tissue labeling PRX with **ab259953** at 1/100 (4.8 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on mouse lung is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



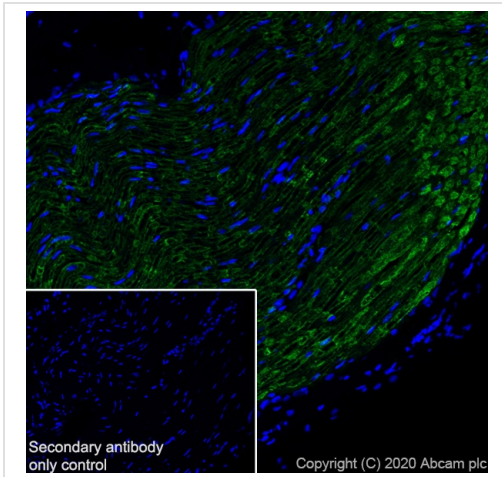
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling PRX with **ab259953** at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection). Positive staining on the capillaries of human cerebrum (PMID: 29968755). The section was incubated with **ab259953** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND®RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



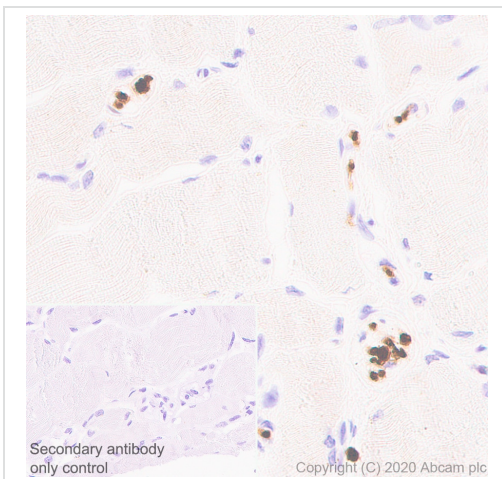
Immunohistochemistry (Frozen sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat sciatic nerve tissue labeling PRX with **ab259953** at 1/250 (1.92 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution (Green). Positive staining on rat sciatic nerve is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



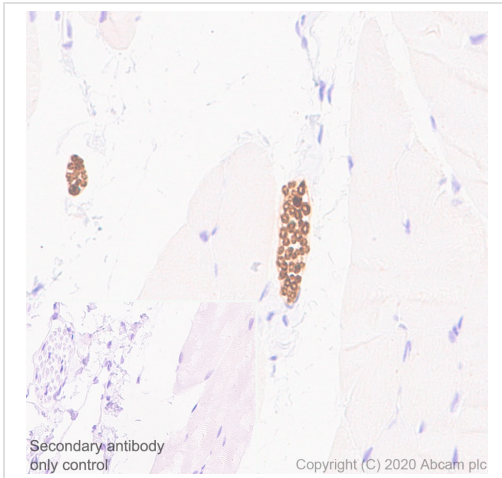
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human skeletal muscle tissue labeling PRX with **ab259953** at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). Positive staining on the nerve fibers of human skeletal muscle. The section was incubated with **ab259953** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



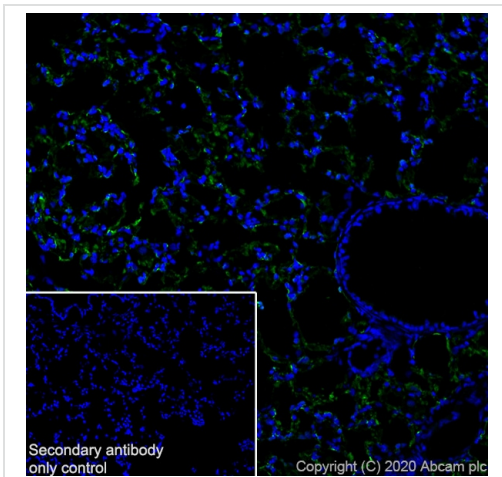
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling PRX with abab259953 at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). Positive staining on the nerve fibers of mouse skeletal muscle. The section was incubated with **ab259953** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



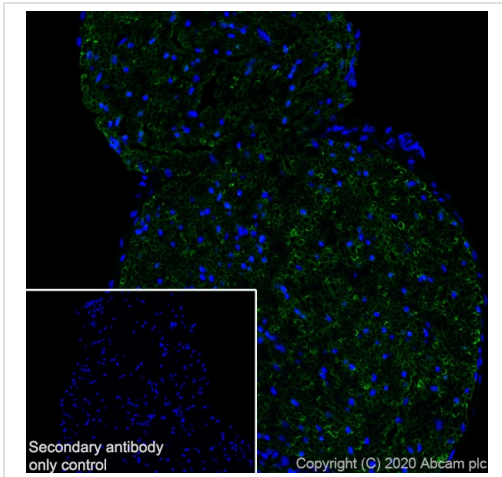
Immunohistochemistry (Frozen sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat lung tissue labeling PRX with **ab259953** at 1/100 (4.8 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution (Green). Positive staining on rat lung is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



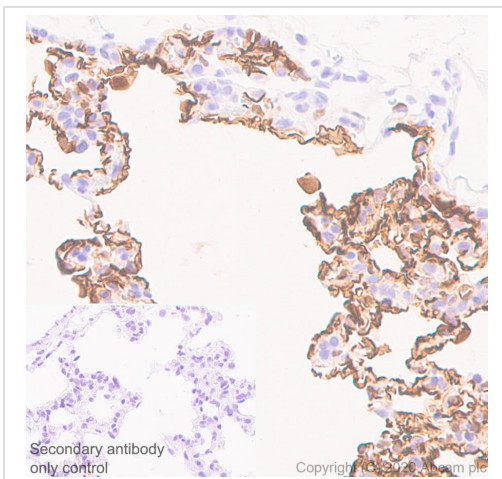
Immunohistochemistry (Frozen sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse sciatic nerve tissue labeling PRX with **ab259953** at 1/250 (1.92 ug/ml) dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution (Green). Positive staining on mouse sciatic nerve is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



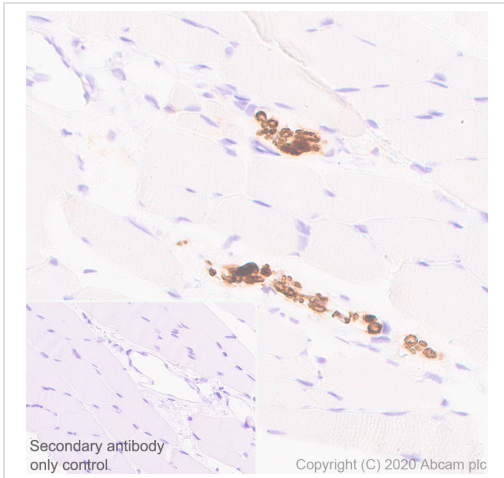
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using **ab259953**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat lung tissue labeling PRX with **ab259953** at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). Positive staining on the capillaries of rat lung. The section was incubated with **ab259953** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



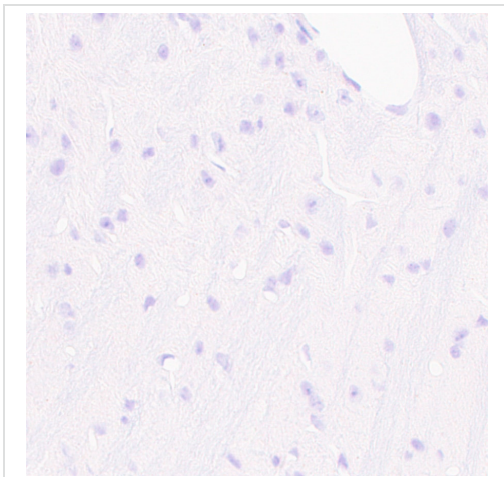
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using [ab259953](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labeling PRX with abab259953 at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). Positive staining on the nerve fibers of rat skeletal muscle. The section was incubated with [ab259953](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection) was used.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

This data was developed using [ab259953](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling PRX with abab259953 at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection). **Negative control:** no staining on the capillaries of mouse cerebrum (PMID:29968755). The section was incubated with [ab259953](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond[®] Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?

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

Anti-PRX antibody [EPR24150-36] - BSA and Azide free (ab278083)

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