abcam

Product datasheet

Anti-PRX antibody [EPR24150-36] ab259953

Recombinant RabMAb

13 Images

Overview

Product name	Anti-PRX antibody [EPR24150-36]
Description	Rabbit monoclonal [EPR24150-36] to PRX
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	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**.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24150-36

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab259953 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		1/100. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IHC-P		1/2000. 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-glial 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.

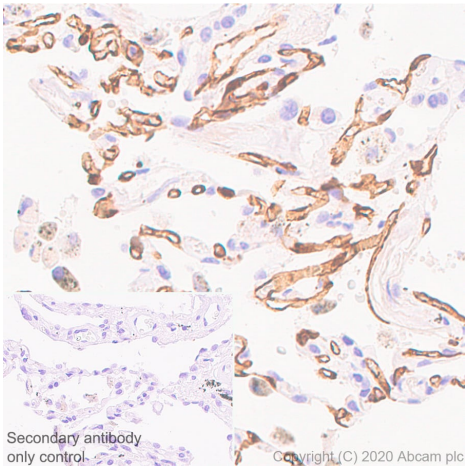
Involvement in disease Defects in PRX are a cause of Dejerine-Sottas syndrome (DSS) [MIM:145900]; also known as Dejerine-Sottas neuropathy (DSN) or hereditary motor and sensory neuropathy III (HMSN3). DSS is a severe degenerating neuropathy of the demyelinating Charcot-Marie-Tooth disease category, with 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

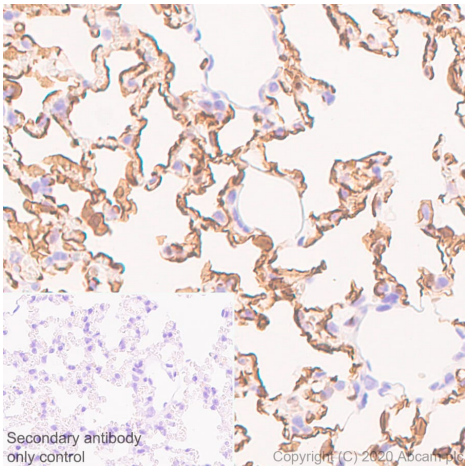


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PRX antibody [EPR24150-36] (ab259953)

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] (ab259953)

Immunohistochemical analysis of paraffin-embedded Mouse lung 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 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.

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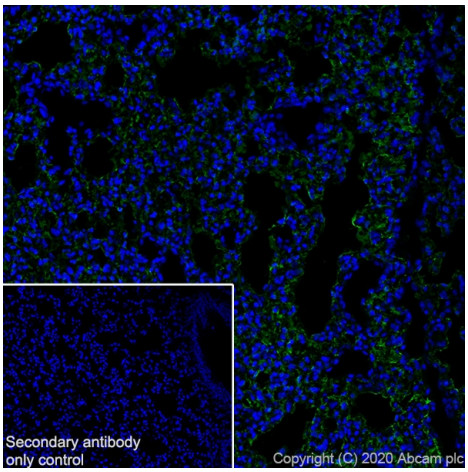
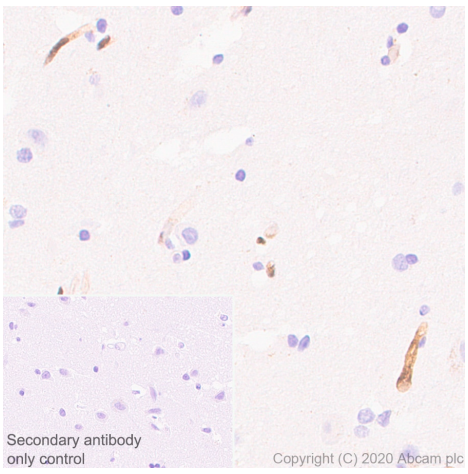


Immunohistochemistry (Frozen sections) - Anti-PRX antibody [EPR24150-36] (ab259953)

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] (ab259953)

Immunohistochemical analysis of paraffin-embedded Human 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). 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.

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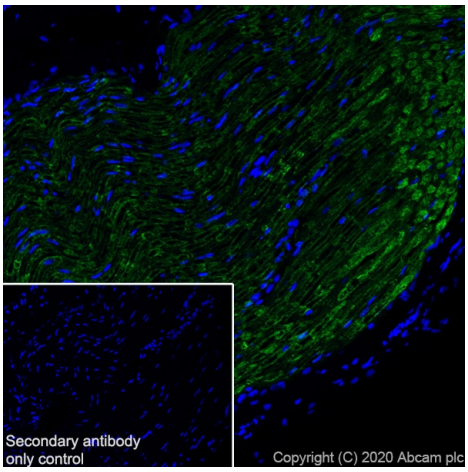
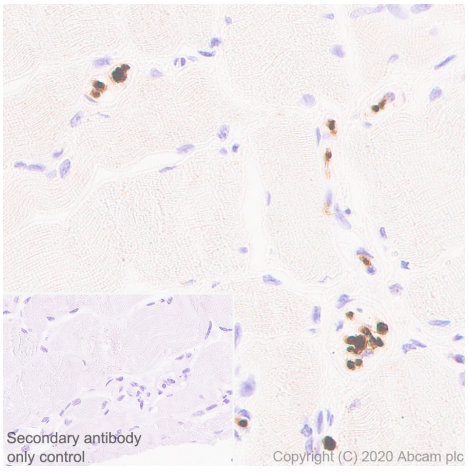


Immunohistochemistry (Frozen sections) - Anti-PRX antibody [EPR24150-36] (ab259953)

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] (ab259953)

Immunohistochemical analysis of paraffin-embedded Human 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 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.

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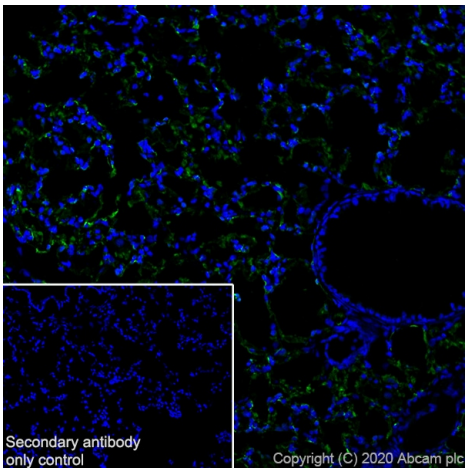

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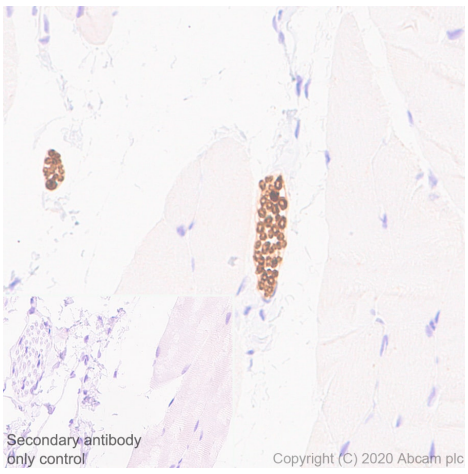

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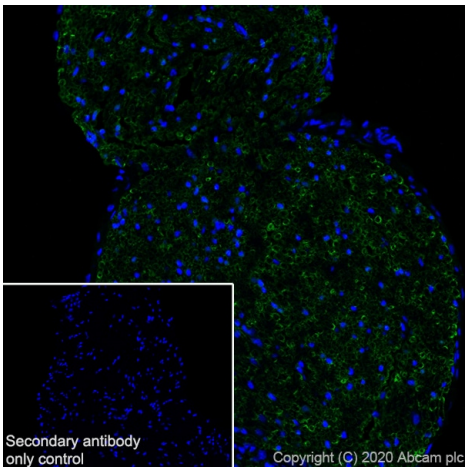

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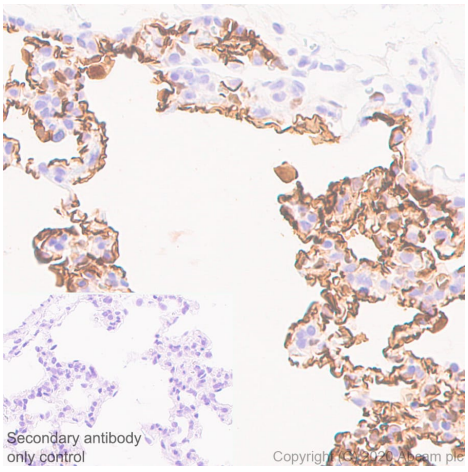

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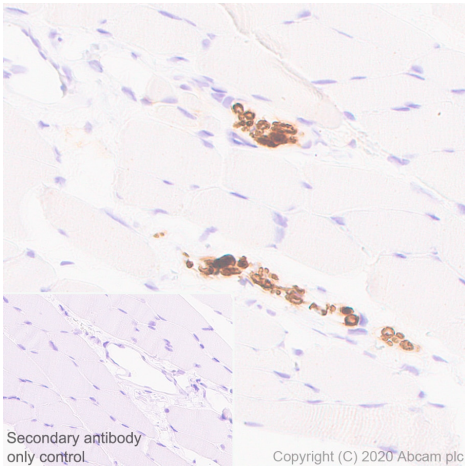
Immunohistochemical analysis of paraffin-embedded Rat lung tissue labeling PRX with abab259953 at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection). Positive staining on the capillaries of rat lung. The section was incubated with ab259953 for 30 mins 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.



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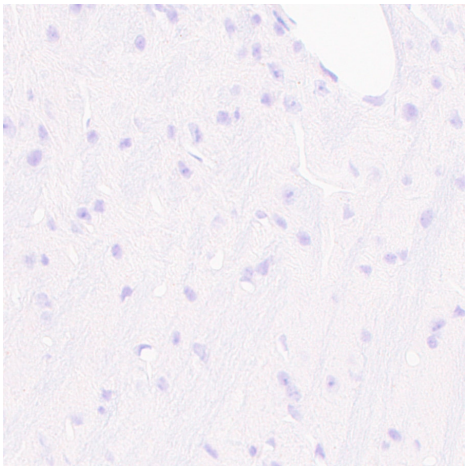

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Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling PRX with abab259953 at 1/2000 (0.24 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection). **Negative control:** no staining on the capillaries 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.

Anti-PRX antibody [EPR24150-36] (ab259953)

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