abcam

Product datasheet

Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free ab269861

Recombinant RabMAb

11 Images

Overview

Product name	Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free
Description	Rabbit monoclonal [EPR23445-28] to Peripherin - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** IP, Flow Cyt (Intra), WB, IHC-P, IHC-Fr, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human spinal cord, Human lower limb nerve, Human nerve, SH-SY5Y, Mouse dorsal ganglion, Rat dorsal ganglion, Mouse spinal cord, Rat spinal cord, Mouse sciatic nerve, Neuro-2a and PC-12 lysates. IHC-P: Human colon, Mouse colon and Rat colon tissues. IHC-Fr: Mouse and rat colon tissue. ICC: SH-SY5Y and Neuro-2a cells. Flow:: SH-SY5Y and Neuro-2a cells. IP: Human spinal cord lysate.
General notes	ab269861 is the carrier-free version of **ab246502**. 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. 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. 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. 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. 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23445-28
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab269861 in the following tested applications.

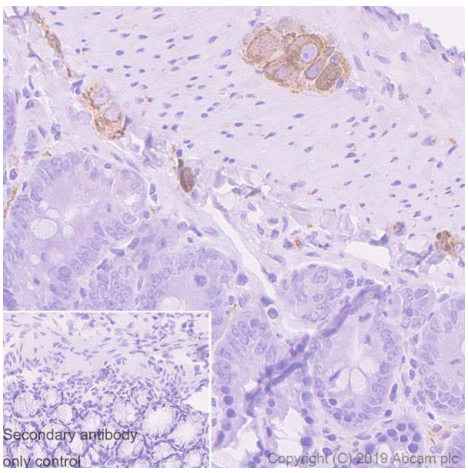
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 58, 56, 45, 28 kDa (predicted molecular weight: 54 kDa).
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.
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).
ICC/IF		Use at an assay dependent concentration.

Target

Function	Class-III neuronal intermediate filament protein.
Sequence similarities	Belongs to the intermediate filament family.

Images



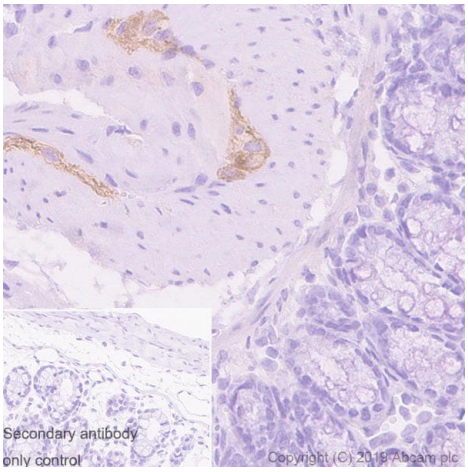
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labeling Peripherin with **ab246502** at 1/10,000 dilution (0.05 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on the ganglion cells in rat colon is observed. The section was incubated with **ab246502** for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



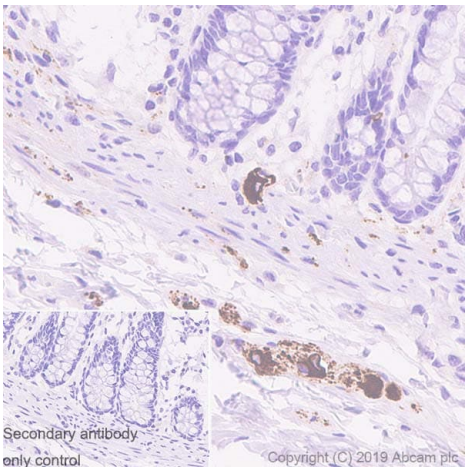
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Immunohistochemical analysis of paraffin-embedded Mouse colon tissue labeling Peripherin with **ab246502** at 1/10,000 dilution (0.05 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on the ganglion cells in mouse colon is observed. The section was incubated with **ab246502** for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



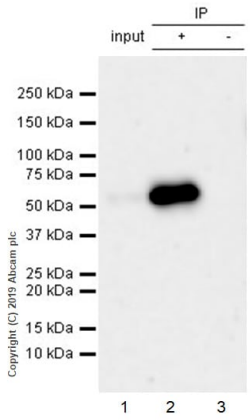
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling Peripherin with **ab246502** at 1/2000 dilution (0.227 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on the ganglion cells in human colon (PMID: 26469323). The section was incubated with **ab246502** for 10 mins at room temperature. The immunostaining staining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



Immunoprecipitation - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Peripherin was immunoprecipitated from 0.35 mg Human spinal cord lysate with **ab246502** at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using **ab246502** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used at 1/5000 dilution.

Lane 1: Human spinal cord lysate 10ug

Lane 2: **ab246502** IP in Human spinal cord lysate

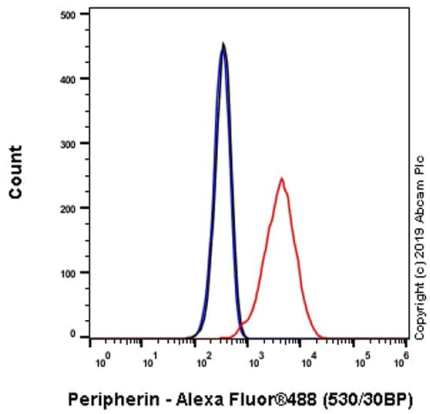
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab246502** in Human spinal cord lysate

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

Exposure time: 40 seconds.

The 58KD isoform of peripherin observed is consistent with what has been described in the literature (PMID: 20587592, 18287500, 17475883).

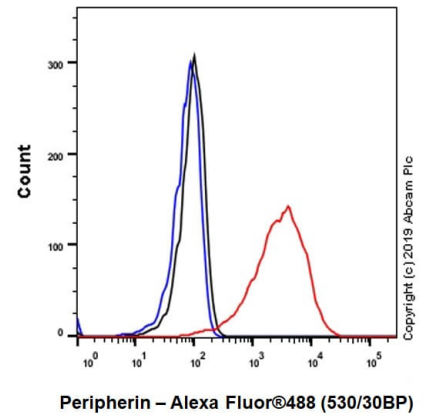
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



Flow Cytometry (Intracellular) - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labelling Peripherin with **ab246502** at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

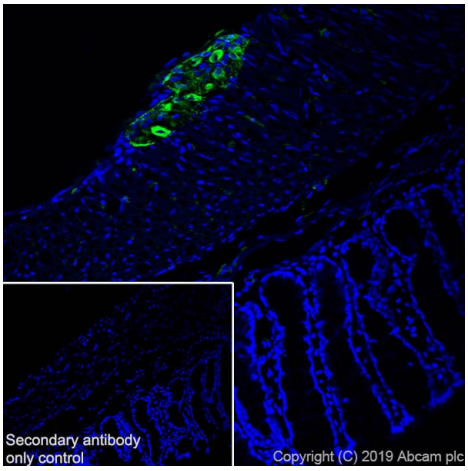
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



Flow Cytometry (Intracellular) - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Intracellular flow cytometric analysis of 4% paraformaldehyde fixed, 90% methanol permeabilized SH-SY5Y (human neuroblastoma epithelial cell) cells labelling Peripherin with **ab246502** at 1/50 dilution (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor®488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



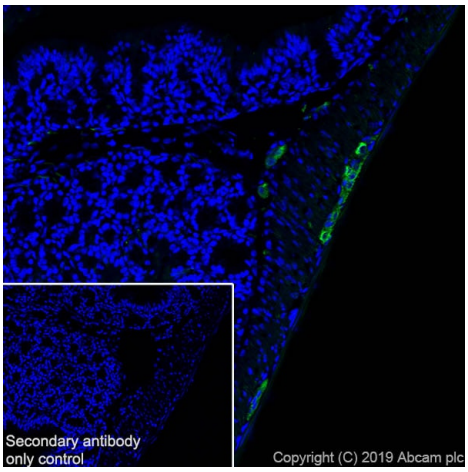
Immunohistochemistry (Frozen sections) - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized rat colon tissue labeling Peripherin with **ab246502** at 1/250 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (Green). Positive staining on the ganglion cells in rat colon is observed. The nuclear counter stain is DAPI (Blue).

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

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



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Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized mouse colon tissue labeling Peripherin with **ab246502** at 1/250 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution (Green). Positive staining on the ganglion cells in mouse colon is observed. The nuclear counter stain is DAPI (Blue).

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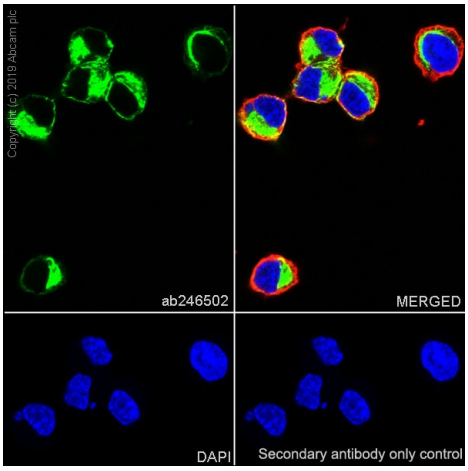
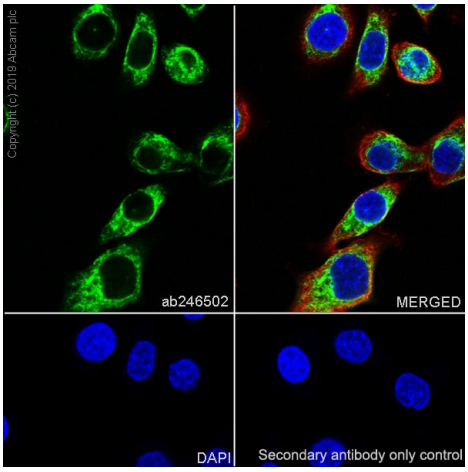


Immunocytochemistry/ Immunofluorescence - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Neuro-2a (mouse neuroblastoma neuroblast) cells labeling Peripherin with **ab246502** at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in Neuro-2a cell line. Tubulin is detected using **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (Red). The nuclear counter stain is DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab246502**).



Immunocytochemistry/ Immunofluorescence - Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

Immunofluorescent analysis of4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized SH-SY5Y (human neuroblastoma epithelial cell) cells labeling Peripherin with **ab246502** at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in SH-SY5Y cell line. Tubulin is detected using **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1/200 dilution (Red). The nuclear counter stain is DAPI (Blue).

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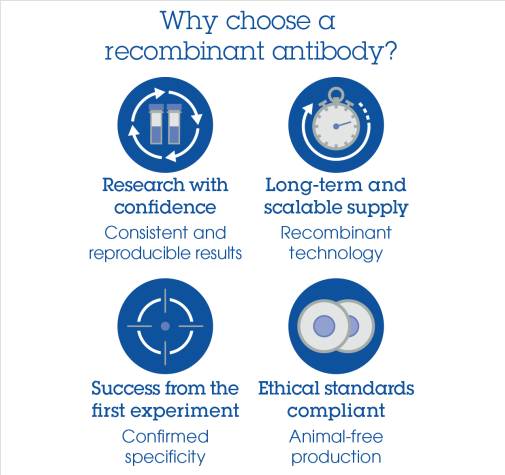

Anti-Peripherin antibody [EPR23445-28] - BSA and Azide free (ab269861)

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