

Anti-PMP22 antibody [EPR23112-110] ab270400

リコンビナント **RabMAb**

★★★★★ **1 Abreviews** **1 References** 画像数 8

製品の概要

製品名	Anti-PMP22 antibody [EPR23112-110]
製品の詳細	Rabbit monoclonal [EPR23112-110] to PMP22
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P, ICC/IF, IP, Flow Cyt
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human leg nerve tissue lysate and 293T transfected with PMP22 (WT) expression vector containing a myc-His-tag, whole cell lysate. IHC-P: Human nerve tissue. ICC/IF: 293T transfected with myc-his tagged PMP22 overexpression construct cells. Flow Cyt: 293T transfected with myc-his tagged PMP22 overexpression construct cells. IP: 293T transfected with myc-his tagged PMP22 overexpression construct cells.
特記事項	<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 monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EPR23112-110
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab270400の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB	★☆☆☆☆ (1)	1/1000. Predicted molecular weight: 18 kDa.
IHC-P		1/32000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/250.
IP		1/30.
Flow Cyt		1/600.

ターゲット情報

機能 Might be involved in growth regulation, and in myelinization in the peripheral nervous system.

関連疾患

Defects in PMP22 are the cause of Charcot-Marie-Tooth disease type 1A (CMT1A) [MIM:118220]; also known as hereditary motor and sensory neuropathy IA. CMT1A is a form of Charcot-Marie-Tooth disease, the most common inherited disorder of the peripheral nervous system. Charcot-Marie-Tooth disease is classified in two main groups on the basis of electrophysiologic properties and histopathology: primary peripheral demyelinating neuropathy or CMT1, and primary peripheral axonal neuropathy or CMT2. Neuropathies of the CMT1 group are characterized by severely reduced nerve conduction velocities (less than 38 m/sec), segmental demyelination and remyelination with onion bulb formations on nerve biopsy, slowly progressive distal muscle atrophy and weakness, absent deep tendon reflexes, and hollow feet. CMT1A inheritance is autosomal dominant.

Defects in PMP22 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.

Defects in PMP22 are a cause of hereditary neuropathy with liability to pressure palsies (HNPP) [MIM:162500]; an autosomal dominant disorder characterized by transient episodes of decreased perception or peripheral nerve palsies after slight traction, compression or minor traumas.

Defects in PMP22 are the cause of Charcot-Marie-Tooth disease type 1E (CMT1E) [MIM:118300]; also known as Charcot-Marie-Tooth disease and deafness autosomal dominant. CMT1E is an autosomal dominant form of Charcot-Marie-Tooth disease characterized by the association of sensorineural hearing loss with peripheral demyelinating neuropathy.

Defects in PMP22 may be a cause of inflammatory demyelinating polyneuropathy (IDP) [MIM:139393]. IDP is a putative autoimmune disorder presenting in an acute (AIDP) or chronic form (CIDP). The acute form is also known as Guillain-Barre syndrome.

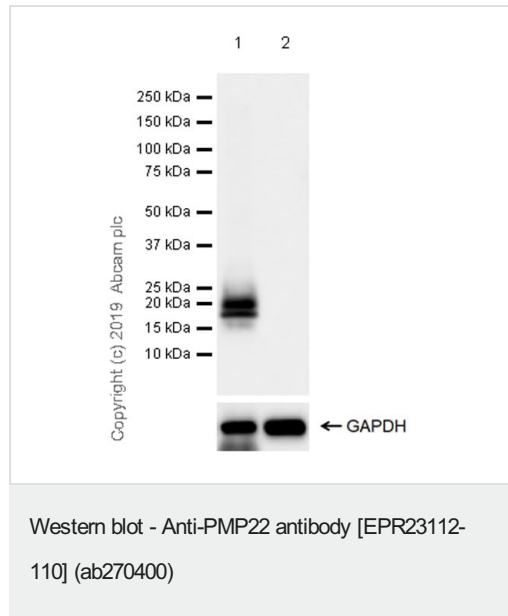
配列類似性

Belongs to the PMP-22/EMP/MP20 family.

細胞内局在

Membrane.

画像



All lanes : Anti-PMP22 antibody [EPR23112-110] (ab270400) at 1/1000 dilution

Lane 1 : Human leg nerve tissue lysate

Lane 2 : Human brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

Predicted band size: 18 kDa

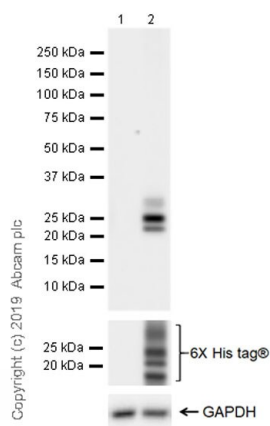
Observed band size: 18,22 kDa

Exposure time: 3 seconds

The expression profile observed is consistent with what has been described in the literature (PMID: 25429154; 7649472).

Negative control: Human brain (PMID: 7649472).

Blocking/diluting buffer and concentration: 5% NFDm/TBST



Western blot - Anti-PMP22 antibody [EPR23112-110] (ab270400)

All lanes : Anti-PMP22 antibody [EPR23112-110] (ab270400) at 1/1000 dilution

Lane 1 : 293T (human embryonic kidney epithelial cell) transfected with an empty vector (vector control) containing a myc-His-tag®, whole cell lysate

Lane 2 : 293T transfected with PMP22 (WT) expression vector containing a myc-His-tag®, whole cell lysate

Lysates/proteins at 20 µg per lane.

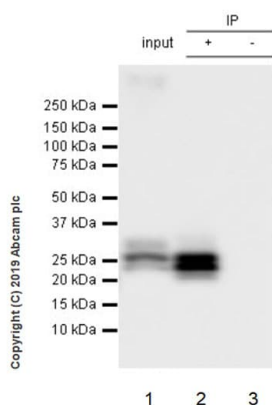
Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

Predicted band size: 18 kDa

Observed band size: 18,20 kDa

Exposure time: 15 seconds



Immunoprecipitation - Anti-PMP22 antibody [EPR23112-110] (ab270400)

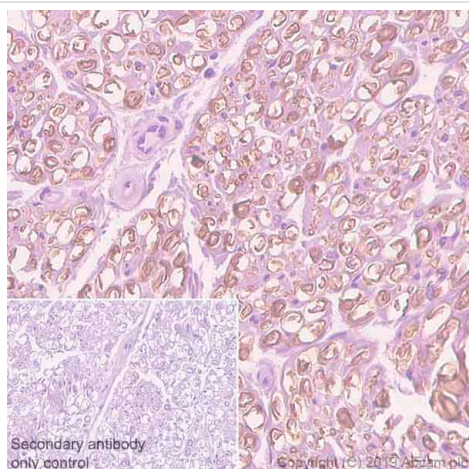
PMP22 was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell) transfected with PMP22 (WT) expression vector containing a myc-His-tag®, whole cell lysate with ab270400 at 1/30 dilution (2 µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab270400 1/1000 dilution (0.58 µg/ml). VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used at 1/5000 dilution.

Lane 1: 293T cells transfected with PMP22 (WT) expression vector containing a myc-His-tag®, whole cell lysate 10 µg

Lane 2: ab270400 IP in 293T transfected with PMP22 (WT) expression vector containing a myc-His-tag®, whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab270400 in 293T transfected with PMP22 (WT) expression vector containing a myc-His-tag®, whole cell lysate. Blocking and dilution buffer and concentration: 5% NFDm/TBST.

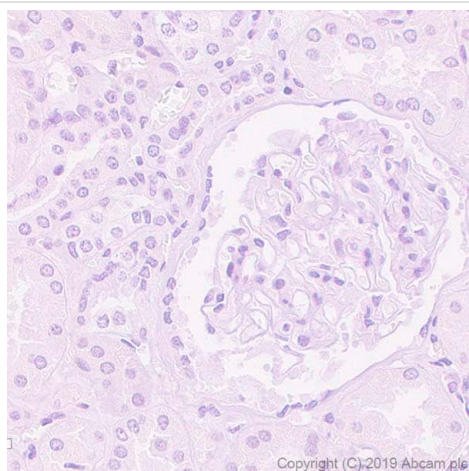
Exposure time: 3 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PMP22 antibody [EPR23112-110] (ab270400)

Immunohistochemical analysis of paraffin-embedded Human nerve tissue labeling PMP22 with ab270400 at 1/32000 dilution (0.018 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining in Schwann cells of human nerve (PMID:7691737) is observed. The section was incubated with ab270400 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

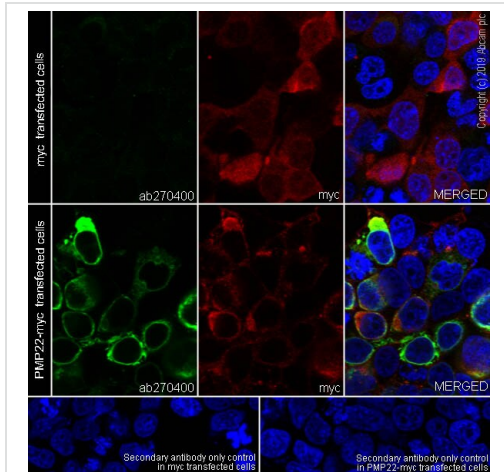


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PMP22 antibody [EPR23112-110] (ab270400)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling PMP22 with ab270400 at 1/32000 dilution (0.018 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Negative control: negative staining in human kidney (PMID:7649472).

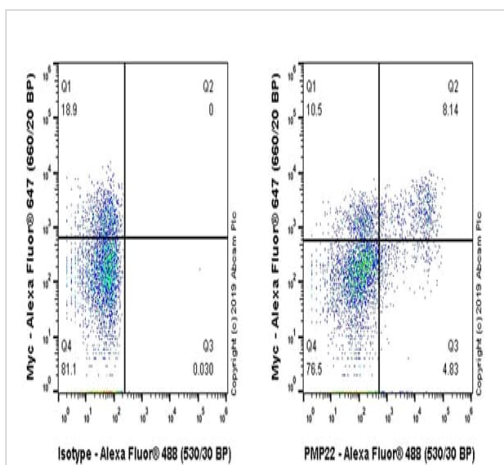
The section was incubated with ab270400 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



Immunocytochemistry/ Immunofluorescence - Anti-PMP22 antibody [EPR23112-110] (ab270400)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized 293T cells transfected with a myc-tagged PMP22 expression construct. Cells labelling PMP22 with ab270400 at 1/250 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in 293T cells transfected with a myc-tagged PMP22 expression construct is observed. 2233S Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 647 Conjugate) was used to counterstain tubulin at 1/100 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry - Anti-PMP22 antibody [EPR23112-110] (ab270400)

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized 293T transfected with myc-his tagged PMP22 overexpression construct cells labelling PMP22 with ab270400 at 1/600 dilution (0.1 ug)/ Right compared with a Rabbit monoclonal IgG (**ab172730**) / Left isotype control. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with isotype control or ab270400. Then fixed with 2% PFA for 10min followed by intracellularly stained with anti-myc tag conjugated to Alexa Fluor® 647.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



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Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PMP22 antibody [EPR23112-110] (ab270400)

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