

Product datasheet

Anti-P2Y12 antibody [EPR26298-93] ab300140

Recombinant RabMAb

7 Images

Overview

Product name	Anti-P2Y12 antibody [EPR26298-93]
Description	Rabbit monoclonal [EPR26298-93] to P2Y12
Host species	Rabbit
Tested applications	Suitable for: IHC-P, IHC-Fr Unsuitable for: Flow Cyt, ICC/IF, IP or WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human cerebrum, Mouse cerebrum, Rat cerebrum and Human liver tissues. IHC-Fr: Mouse cerebrum and Rat cerebrum tissues.
General notes	<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>

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	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR26298-93

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab300140 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-P		1/40000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		1/500.

Application notes

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

Target

Function

Receptor for ADP and ATP coupled to G-proteins that inhibit the adenylyl cyclase second messenger system. Not activated by UDP and UTP. Involved in platelets aggregation.

Tissue specificity

Highly expressed in the platelets, lower levels in the brain. Lowest levels in the lung, appendix, pituitary and adrenal gland. Expressed in the spinal cord and in the fetal brain.

Involvement in disease

Defects in P2RY12 are the cause of P2RY12 deficiency (P2RY12D) [MIM:609821]. It is a condition characterized by severe impairment of platelet response to ADP and abnormal bleeding marked by excessive posttraumatic and postsurgical blood loss.

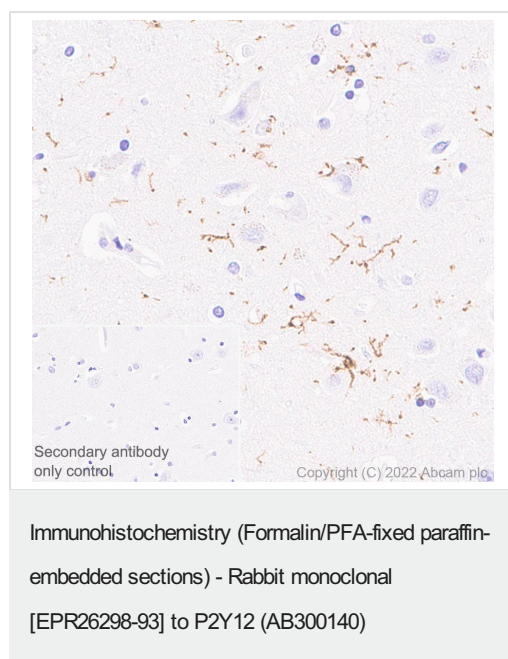
Sequence similarities

Belongs to the G-protein coupled receptor 1 family.

Cellular localization

Cell membrane.

Images



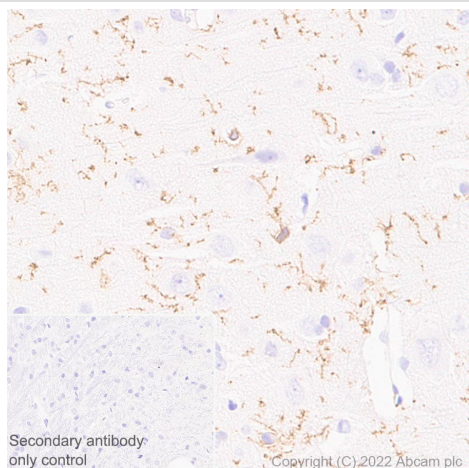
Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling P2Y12 with ab300140 at 1/40000 dilution, followed by LeicaDS9800 (Bond™ Polymer Refine Detection). Counterstained with Hematoxylin.

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

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).

Positive staining on microglial cells in human cerebrum (PMID: 30196821). The section was incubated with ab300140 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit monoclonal [EPR26298-93] to P2Y12 (AB300140)

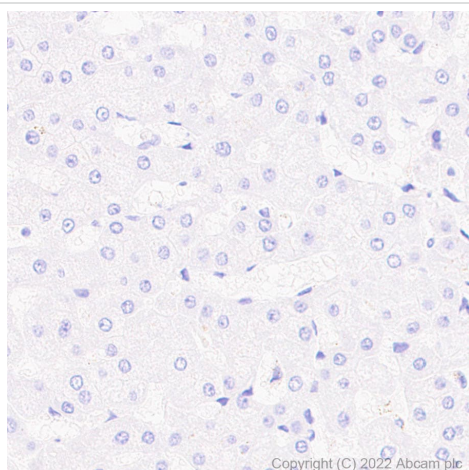
Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling P2Y12 with ab300140 at 1/40000 dilution, followed by LeicaDS9800 (Bond™ Polymer Refine Detection). Counterstained with Hematoxylin.

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

Positive staining on microglial cells in rat cerebrum (PMID: 30196821). The section was incubated with ab300140 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit monoclonal [EPR26298-93] to P2Y12 (AB300140)

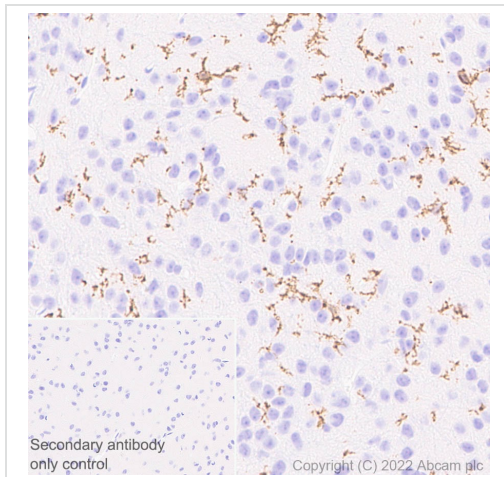
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling P2Y12 with ab300140 at 1/40000 dilution, followed by LeicaDS9800 (Bond™ Polymer Refine Detection). Counterstained with Hematoxylin.

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

Negative control: no staining on human liver. The section was incubated with ab300140 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Rabbit monoclonal [EPR26298-93] to P2Y12 (AB300140)

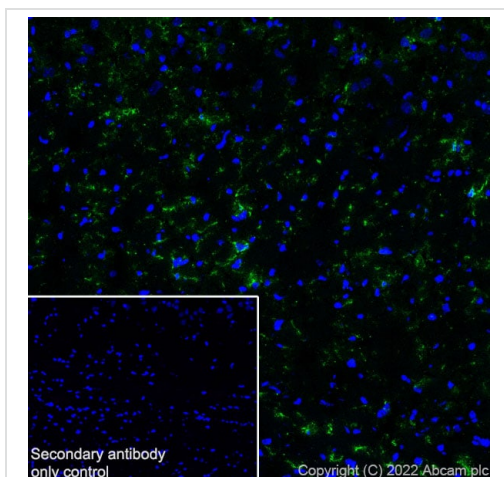
Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling P2Y12 with ab300140 at 1/40000 dilution, followed by LeicaDS9800 (Bond™ Polymer Refine Detection). Counterstained with Hematoxylin.

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

Positive staining on microglial cells in mouse cerebrum (PMID: 30196821). The section was incubated with ab300140 for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Secondary antibody only control: Secondary antibody is a ready to use Leica DS9800 (BOND™ Polymer Refine Detection).

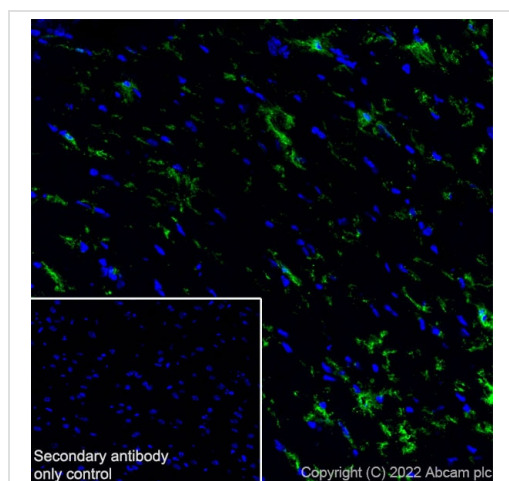


Immunohistochemistry (Frozen sections) - Rabbit monoclonal [EPR26298-93] to P2Y12 (AB300140)

Immunohistological analysis of 4% PFA fixed and 0.2% Triton X-100 permeabilized frozen rat cerebrum tissue labeling P2Y12 with ab300140 at 1/500 dilution, followed by (**ab150081**) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution. DAPI was used as nuclear counterstain.

Positive staining on rat cerebrum.

Secondary antibody only control used PBS instead of primary antibody, followed by secondary (**ab150081**) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Immunohistochemistry (Frozen sections) - Rabbit monoclonal [EPR26298-93] to P2Y12 (AB300140)

Immunohistological analysis of 4% PFA fixed and 0.2% Triton X-100 permeabilized frozen mouse cerebrum (fresh) tissue labeling P2Y12 with ab300140 at 1/500 dilution, followed by (**ab150081**) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution. DAPI was used as nuclear counterstain.

Positive staining on mouse cerebrum.

Secondary antibody only control used PBS instead of primary antibody, followed by secondary (**ab150081**) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.

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>

Rabbit monoclonal [EPR26298-93] to P2Y12 (AB300140)

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