

Product datasheet

Anti-Aquaporin 5 antibody [EPR3747] ab92320

Recombinant RabMAb

★★★★☆ [7 Abreviews](#) [45 References](#) [3 Images](#)

Overview

Product name	Anti-Aquaporin 5 antibody [EPR3747]
Description	Rabbit monoclonal [EPR3747] to Aquaporin 5
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
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 -20°C. Stable for 12 months at -20°C.
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	EPR3747
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab92320 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
WB	★ ★ ★ ★ ★ (1)	1/1000 - 1/10000. Predicted molecular weight: 28 kDa.
IHC-P	★ ★ ★ ★ ★ (3)	1/1200. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended before commencing with IHC staining protocol. The use of an HRP/AP polymerized secondary antibody is recommended as stronger signals have been found using these. For unpurified use between 1/100 and 1/250

Application notes

Is unsuitable for Flow Cyt.

Target

Function

Forms a water-specific channel. Implicated in the generation of saliva, tears, and pulmonary secretions. Required for TRPV4 activation by hypotonicity (PubMed:16571723). Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells (PubMed:16571723).

Involvement in disease

Keratoderma, palmoplantar, Bothnian type

Sequence similarities

Belongs to the MIP/aquaporin (TC 1.A.8) family.

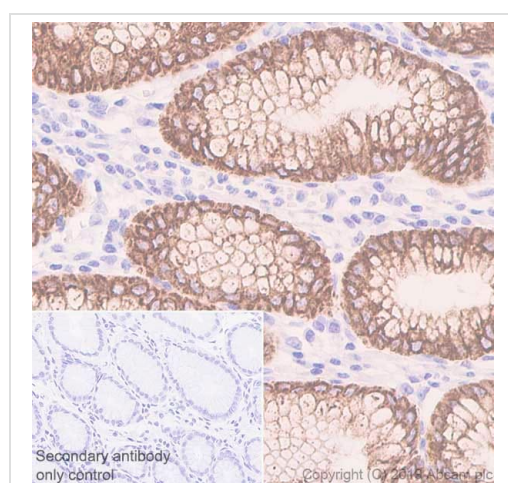
Domain

Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).

Cellular localization

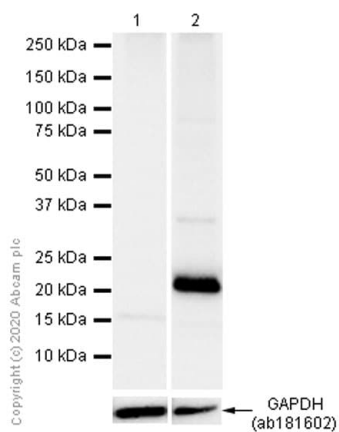
Apical cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human stomach tissue sections labelling Aquaporin 5 with purified ab92320 at 1/1200 dilution (0.13 µg/ml). Heat mediated antigen retrieval was performed using Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aquaporin 5 antibody [EPR3747] (ab92320)



Western blot - Anti-Aquaporin 5 antibody [EPR3747] (ab92320)

All lanes : Anti-Aquaporin 5 antibody [EPR3747] (ab92320) at 1/1000 dilution (Purified)

Lane 1 : SW480 (Human colorectal adenocarcinoma epithelial cell) prepared in RIPA lysis method whole cell lysate

Lane 2 : SW480 (Human colorectal adenocarcinoma epithelial cell) prepared in 1%SDS Hot lysis method whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 28 kDa

Observed band size: 24 kDa

1%SDS Hot lysis method is recommended for this antibody. The molecular weight observed is consistent with what has been described in the literatures (PMID: 32901888, 23313152).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Aquaporin 5 antibody [EPR3747] (ab92320)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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