

Datasheet for ABIN3044413
anti-AQP3 antibody (C-Term)

6 Images

2 Publications

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Overview

Quantity:	100 µg
Target:	AQP3
Binding Specificity:	AA 278-292, C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Aquaporin-3(AQP3) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human Aquaporin 3(278-292aa EENVKLAHVKHKEQI), different from the related rat and mouse sequences by one amino acid.
Sequence:	EENVKLAHVK HKEQI
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Aquaporin-3(AQP3) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat. Gene Name: aquaporin 3(Gill blood group)

Product Details

Protein Name: Aquaporin-3

Purification: Immunogen affinity purified.

Target Details

Target: AQP3

Alternative Name: AQP3 ([AQP3 Products](#))

Background: This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms.

Synonyms: AQP 3 antibody|AQP-3 antibody|Aqp3 antibody|AQP3_HUMAN antibody|Aquaglyceroporin-3 antibody|Aquaporin 3(GIL blood group) antibody|Aquaporin 3(Gill blood group) antibody|Aquaporin-3 antibody|Aquaporin3 antibody|GIL antibody|Gill blood group antibody

UniProt: [Q92482](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse
ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

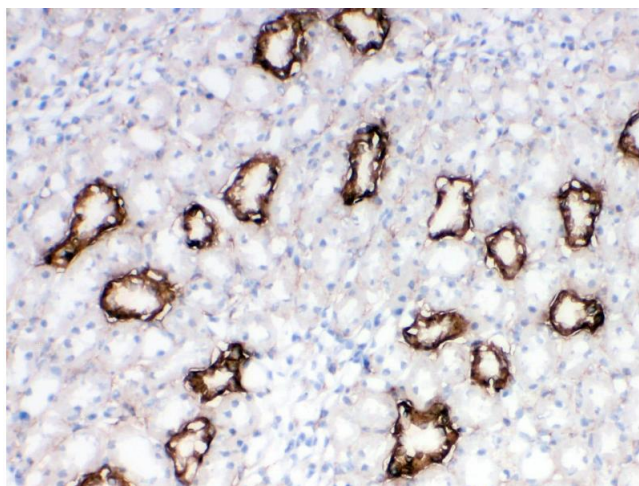
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

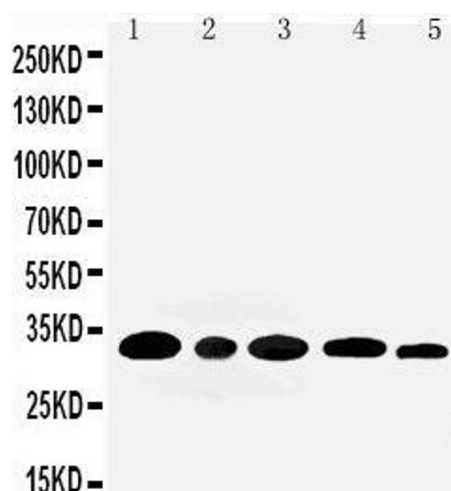
Publications

Product cited in: Whiteland, Nicholls, Shimeld, Easty, Williams, Hill: "Immunohistochemical detection of T-cell subsets and other leukocytes in paraffin-embedded rat and mouse tissues with monoclonal antibodies." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 43, Issue 3, pp. 313-20, (1995) ([PubMed](#)).



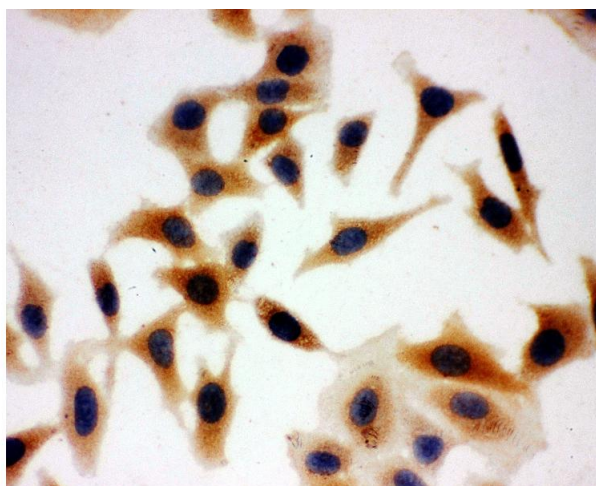
Immunohistochemistry

Image 1. Anti-Aquaporin 3 antibody, IHC(F) IHC(F): Rat Kidney Tissue



Western Blotting

Image 2. Anti-Aquaporin 3 antibody, Western blotting Lane 1: Rat Kidney Tissue Lysate Lane 2: Rat Lung Tissue Lysate Lane 3: Mouse Kidney Tissue Lysate Lane 4: M453 Cell Lysate Lane 5: MMC Cell Lysate



Immunohistochemistry

Image 3. Anti-Aquaporin 3 antibody, ICC ICC: HELA Cell

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3044413.