

Datasheet for ABIN7042943

anti-Aquaporin 7 antibody (Intracellular, N-Term)

3 Images

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Overview

Quantity:	25 µL
Target:	Aquaporin 7 (AQP7)
Binding Specificity:	AA 7-24, Intracellular, N-Term
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aquaporin 7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: ENIQSVLQKTWVREFLAEE, corresponding to amino acid residues 7-24 of rat AQP7
Isotype:	IgG
Characteristics:	Anti-Aquaporin 7 Antibody (ABIN7042943, ABIN7045203 and ABIN7045204)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunocytochemistry, and immunohistochemistry applications. It has been designed to recognize AQP-7 from mouse and rat samples, and may recognize the channel from human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

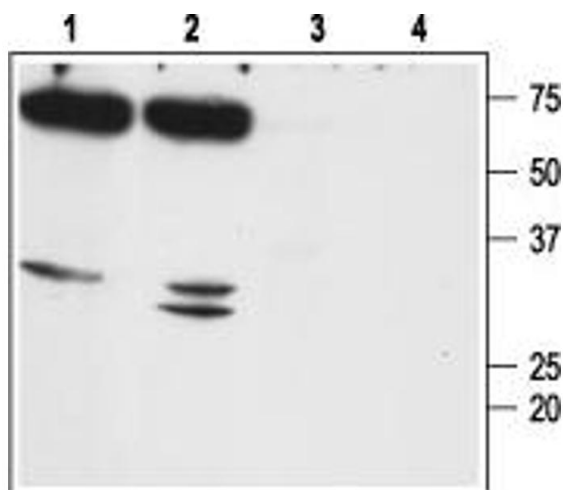
Target:	Aquaporin 7 (AQP7)
Alternative Name:	Aquaporin 7 (AQP7 Products)
Background:	Alternative names: Aquaporin 7, AQP7, Aquaglyceroporin-7, AQPap, Aquaporin adipose
Gene ID:	29171
NCBI Accession:	NM_001170
UniProt:	P56403

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

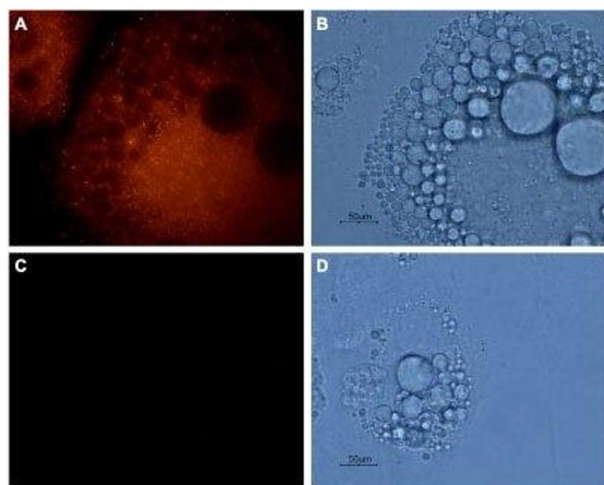
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



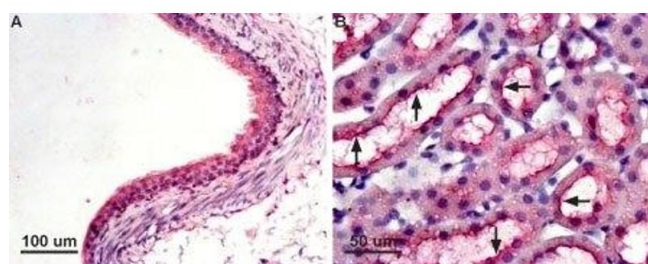
Western Blotting

Image 1. Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) kidney membranes: - 1,2. Anti-Aquaporin 7 Antibody, (ABIN7042943, ABIN7045203 and ABIN7045204), (1:500). 3,4. Anti-Aquaporin 7 Antibody, preincubated with Aquaporin 7 Blocking Peptide (#BLP-QP007).



Immunocytochemistry

Image 2. Expression of AQP7 in rat adipocytes - Immunocytochemical staining of 3T3-L1 adipocytes using Anti-Aquaporin 7 Antibody (ABIN7042943, ABIN7045203 and ABIN7045204), (1:800), followed by goat anti-rabbit-AlexaFluor-555 secondary antibody (red) A, C. Anti-Aquaporin 7 Antibody preincubated with the control peptide antigen followed by goat-anti-rabbit-AlexaFluor-555 secondary antibody. B, D. Visible light images of the adipocytes shown in (A) and (C) respectively.



Immunohistochemistry

Image 3. Expression of AQP7 in rat kidney - Immunohistochemical staining of paraffin-embedded rat kidney sections using Anti-Aquaporin 7 Antibody (ABIN7042943, ABIN7045203 and ABIN7045204), (1:100). A. In the minor calyx, AQP7 staining (deep red) is specific for epithelial cells of the uroepithelium B. In the cortical labyrinth, AQP7 staining is specific for renal tubules while the stronger staining is evident in the brush border (blue arrows). Hematoxylin is used as the counterstain.