

**DATASHEET**

**Aquaporin 3 Rabbit Polyclonal Antibody**

CAT. NO. APA11623

**KEY FEATURES**

Target	Aquaporin 3	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Pig	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

Aquaglyceroporins form homotetrameric transmembrane channels, with each monomer independently mediating glycerol and water transport across the plasma membrane along their osmotic gradient . Could also be permeable to urea . Also participates in cell permeability to H2O2 and H2O2-mediated signaling . In skin, transports glycerol to the epidermis and stratum corneum, where it maintains hydration, elasticity, and supports lipid biosynthesis for barrier repair . In kidney, contributes to the reabsorption of water, helping the body maintain proper fluid balance .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to Aquaporin 3
Specificity	Recognizes endogenous levels of Aquaporin 3 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Aquaporin 3. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 31 kD; Observed: 32 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Aquaporin-3; AQP-3; Aquaglyceroporin-3
Gene Symbol	AQP3
Entrez Gene	360(Human); 11828(Mouse); 65133(Rat)
SwissProt	Q92482(Human); Q8R2N1(Mouse); P47862(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

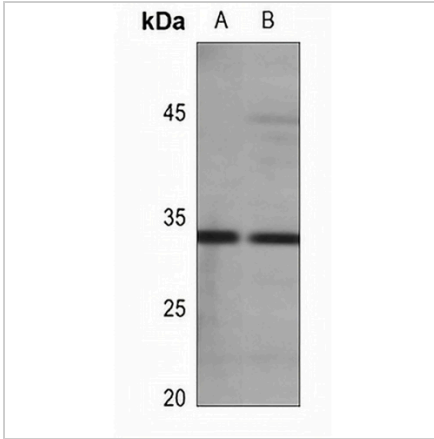
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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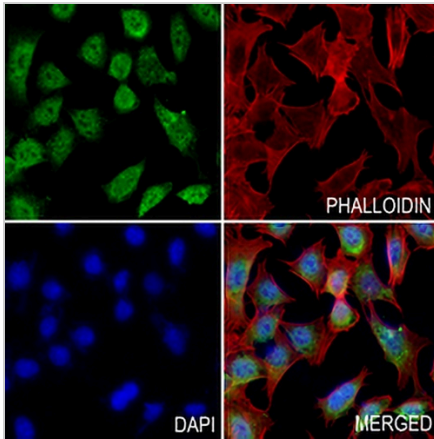
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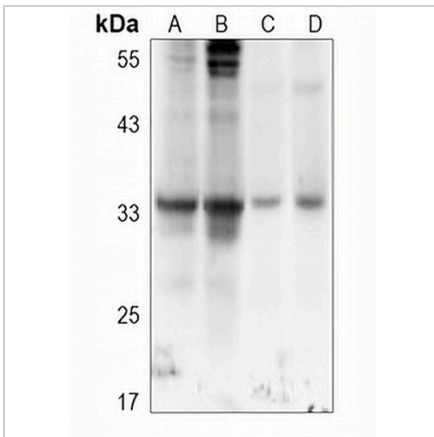
**DATA**



Western blot analysis of Aquaporin 3 expression in mouse kidney (A), rat kidney (B) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 32 kD)



Immunofluorescent analysis of Aquaporin 3 staining in MOVAS cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Western blot analysis of Aquaporin 3 expression in HEK293T (A), Myla2059 (B), mouse spleen (C), rat lung (D) whole cell lysates. (Predicted band size: 31 kD; Observed band size: 32 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.