

Product Name: KD-Validated Aquaporin 1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00231

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 28.5kDa

Antigen Information

Gene Name	AQP1
Alternative Names	AQP1; Aquaporin 1 (Colton Blood Group); CHIP28; Aquaporin 1 (Channel-Forming Integral Protein, 28kDa, CO Blood Group); Water Channel Protein For Red Blood Cells And Kidney Proximal Tubule; Urine Water Channel; Aquaporin-CHIP; Aquaporin-1; CO; Aquaporin 1 (Channel-Forming Integral Protein, 28kDa); Channel-Like Integral Membrane Protein, 28-KDa; Aquaporin 1, Colton Blood Group Antigen; Colton Blood Group Antigen; Bloodgroup CO Protein; Colton Blood Group; Aquaporin 1; AQP-CHIP; AQP-1
Gene ID	358.0
SwissProt ID	P29972
Immunogen	A synthesized peptide derived from human AQP1

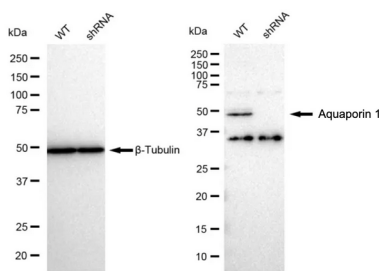
Background

This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016]

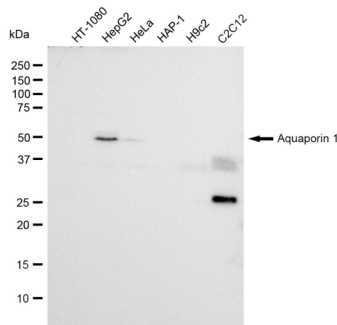
Research Area

Signal Transduction, Neuroscience

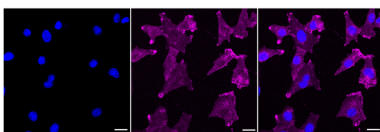
Image Data



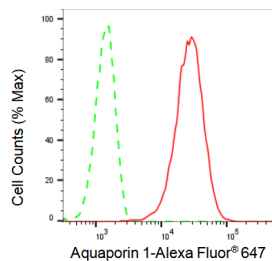
Western blotting analysis using Aquaporin 1 antibody (KVA00231). Aquaporin 1 expression in wild type (WT) and aquaporin 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Aquaporin 1 antibody (KVA00231, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Aquaporin 1 antibody (KVA00231). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Aquaporin 1 antibody (KVA00231, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Aquaporin 1 antibody (KVA00231, 1:1,000). Nuclei were stained blue with DAPI; Aquaporin 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Aquaporin 1 expression in C2C12 cells using Aquaporin 1 antibody (KVA00231, 1:2,000). Green, isotype control; red, Aquaporin 1.