SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-AQP1 antibody

Catalog Number: SL1506R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	AQP1
Immunogen:	KLH conjugated synthetic peptide derived from human AQP1: 181-269/269 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:200-500 IHC-F=1:200-500 IF=1:200-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	28kDa
Subcellular Location:	The cell membrane
Background:	Aquaporin 1 is a 28kD integral membrane protein which was originally identified in red blood cells and renal proximal tubules. AQP1 is also expressed by the choroid plexus and various other tissues. It forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. **Function:** Forms a water-specific channel that provides the plasmamembranes of red cells and kidney proximal tubules with highpermeability to water, thereby permitting water to move in thedirection of an osmotic gradient. **Subunit:** Homotetramer. Interacts with EPHB2; involved in endolymphproduction in the inner ear (By similarity). **Subcellular Location:** Membrane; Multi-pass membrane protein.

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	Tissue Specificity: Expressed in a number of tissues including erythrocytes, renal tubules, retinal pigment epithelium, heart, lung, skeletal muscle, kidney and pancreas. Weakly expressed in brain, placenta and liver. **Similarity:** Belongs to the MIP/aquaporin (TC 1.A.8) family. **Database links:** **Entrez Gene:** 358 Human **Entrez Gene:** 11826 Mouse **Entrez Gene:** 25240 Rat **Entrez Gene:** 442999 Sheep **Entrez Gene:** 282653 Cow **Entrez Gene:** 403732 Dog Omim: 107776 Human **SwissProt:** P47865 Cow **SwissProt:** Q9N2J4 Dog **SwissProt:** P29972 Human **SwissProt:** Q02013 Mouse **SwissProt:** P29975 Rat **SwissProt:** P56401 Sheep **Unigene:** 76152 Human **Unigene:** 18625 Mouse **Unigene:** 1618 Rat Channel protein（Channel Protein）

[VALIDATION IMAGES]

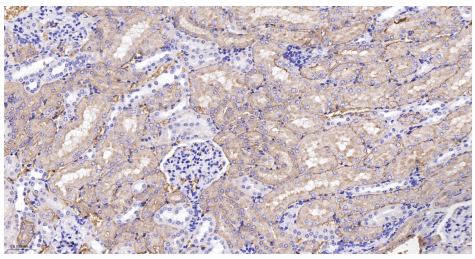


Figure 1. Paraformaldehyde-fixed, paraffin embedded Mouse Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

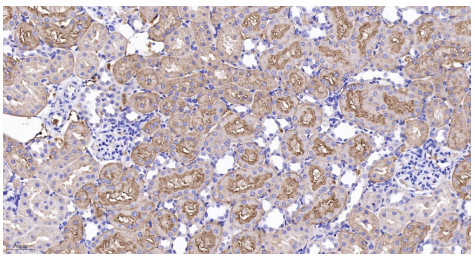


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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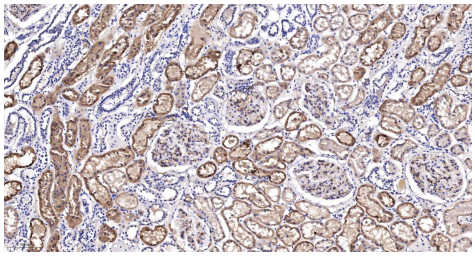


Figure 3. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

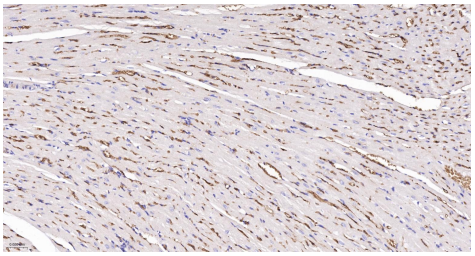


Figure 4. Paraformaldehyde-fixed, paraffin embedded Mouse Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

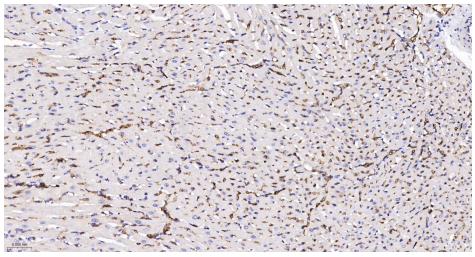


Figure 5. Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

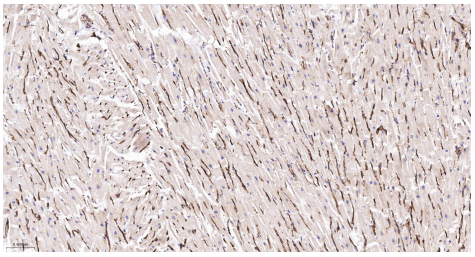


Figure 6. Paraformaldehyde-fixed, paraffin embedded Human Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

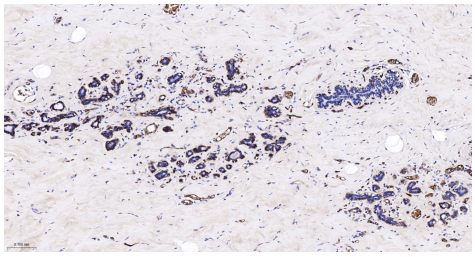


Figure 7. Paraformaldehyde-fixed, paraffin embedded Human Breast; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

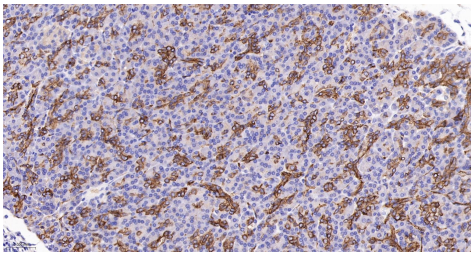


Figure 8. Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with AQP1 Polyclonal Antibody, Unconjugated (SL1506R) at 1:200 overnight at 4°C, followed by conjugation to the SL0295G-HRP and DAB (C-0010) staining

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