

## Anti-Aquaporin-1/AQP1 Antibody (3P252)

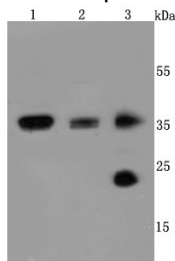
### Product Details

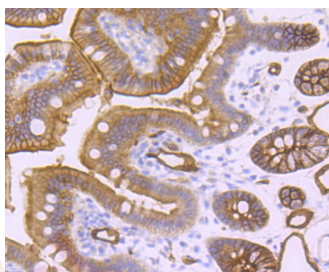
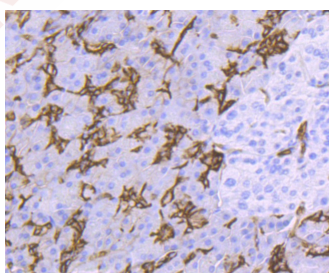
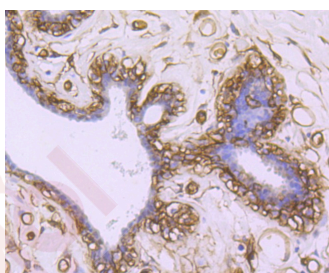
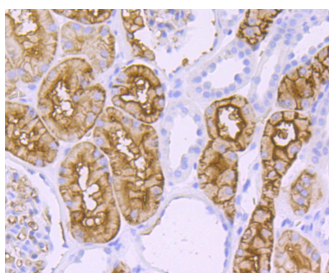
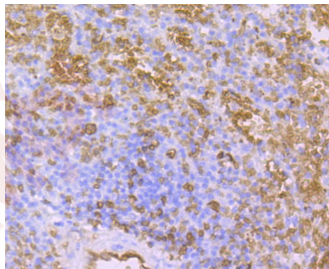
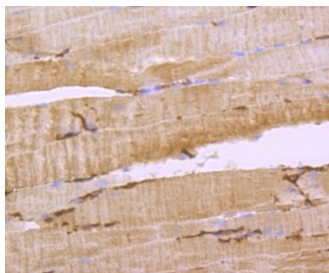
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 28/35 kDa.
Clone:	3P252
Purification:	ProA affinity purified

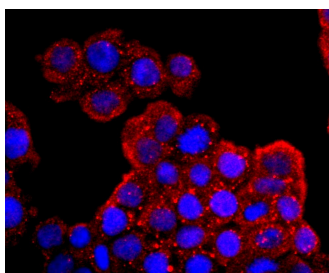
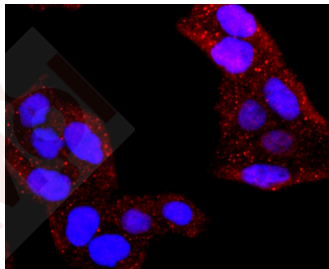
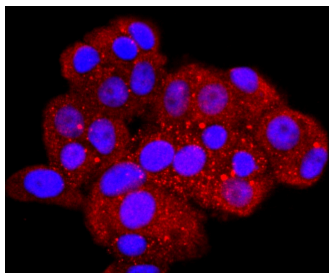
### Applications

#### Verified Activity:

1. Western blot analysis of AQP1 on different cells lysates using anti-AQP1 antibody at 1/500 dilution. Positive control: Line 1: Hela, Line 2: Jurkat, Line 3: Human kidney.
2. Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue using anti-AQP1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-AQP1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-AQP1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-AQP1 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-AQP1 antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-AQP1 antibody. Counter stained with hematoxylin.
8. ICC staining AQP1 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. ICC staining AQP1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. ICC staining AQP1 in SW480 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







Application: ICC/IF,IHC,WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P29972

Synonyms: Aquaporin-1;Aquaporin-CHIP;Channel-like integral membrane protein of 28 kDa;AQP1;CHIP28;Urine water channel;AQP-1

### Research Background

Aquaporins (AQPs) are a large family of integral membrane water transport channel proteins that facilitate the transport of water through the cell membrane. This function is conserved in animals, plants and bacteria. Many isoforms of Aquaporin have been identified in mammals, designated AQP0 through AQP10. Aquaporins are widely distributed and it is not uncommon for more than one type of AQP to be present in the same cell. Although most Aquaporins are only permeable to water, AQP3, AQP7, AQP9 and one of the two AQP10 transcripts are also permeable to urea and glycerol. AQP2 is the only water channel that is activated by vasopressin to enhance water reabsorption in the kidney collecting duct. Aquaporins are involved in renal water absorption, generation of pulmonary secretions, lacrimation and the secretion and reabsorption of cerebrospinal fluid and aqueous humor. AQP1 is an integral membrane protein expressed in erythrocytes and renal tubule cells.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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