



## Rabbit Anti-AQP3 antibody

SL1253R

<b>Product Name:</b>	AQP3
<b>Chinese Name:</b>	水Channel protein-3抗体
<b>Alias:</b>	AQP 3; AQP3; Aquaporin 3 (GIL blood group); Aquaporin 3 (Gill blood group); Aquaporin3; Aquaporin-3; GIL; Gill blood group; AQP3 MOUSE.
<b>文献引用</b> <b>PubMed</b> :	<b>Specific References(1)</b>  SL1253R has been referenced in 1 publications. [IF=4.24]Zhang, Haifeng, et al. "The AQP-3 water channel and the ClC-3 chloride channel coordinate the hypotonicity-induced swelling volume in nasopharyngeal carcinoma cells." The International Journal of Biochemistry & Cell Biology (2014).IP;Human. <a href="#">PubMed:25450461</a>
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	32kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from mouse AQP3:201-292/292<Cytoplasmic>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>This gene encodes the water channel protein aquaporin 3. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein, also known as aquaporin 0. Aquaporin 3 is localized at the basal lateral membranes of collecting duct cells in the kidney. In addition to its water channel function, aquaporin 3 has been found to facilitate the transport of nonionic small solutes such as urea and glycerol, but to a smaller degree. It has been suggested that water channels can be functionally heterogeneous and possess water and solute permeation mechanisms. [provided by RefSeq, Aug 2011]</p> <p><b>Function:</b> Water channel required to promote glycerol permeability and water transport across cell membranes. Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism.</p> <p><b>Subcellular Location:</b> Membrane; Multi-pass membrane protein.</p> <p><b>Tissue Specificity:</b> Renal medulla and colon. Predominantly in the inner medulla. Expressed in basal layer of epidermal keratinocytes.</p> <p><b>Similarity:</b> Belongs to the MIP/aquaporin (TC 1.A.8) family.</p> <p><b>SWISS:</b> Q8R2N1</p> <p><b>Gene ID:</b> 11828</p> <p><b>Database links:</b></p> <p><a href="#">Entrez Gene: 360</a>Human</p> <p><a href="#">Entrez Gene: 11828</a>Mouse</p> <p><a href="#">Entrez Gene: 65133</a>Rat</p>

[Omid: 600170](#)Human

[SwissProt: Q92482](#)Human

[SwissProt: Q8R2N1](#)Mouse

[SwissProt: P47862](#)Rat

[Unigene: 234642](#)Human

[Unigene: 34043](#)Mouse

[Unigene: 11109](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Channel protein (Channel Protein)

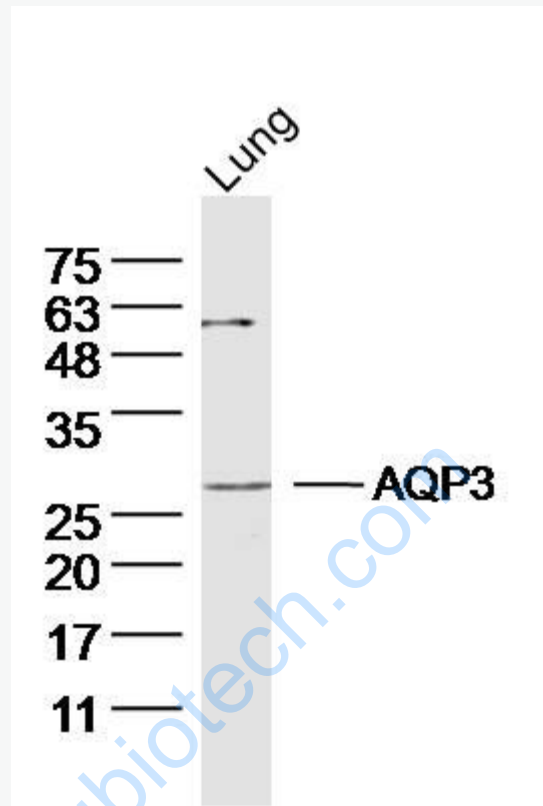
AQP 3主要分布于肾脏集合管epithelial

cells基侧质膜,除了对水有通透性外、还可转运尿素和甘油等小分子物质,而尿素在尿液浓缩机制中有着重要的作用.

有学者认为:AQP-

3的阳性率与某些Tumour分化程度有关(胃癌、结肠癌、乳腺癌、前列腺癌、子宫癌、卵巢癌、甲状腺癌等)

Picture:



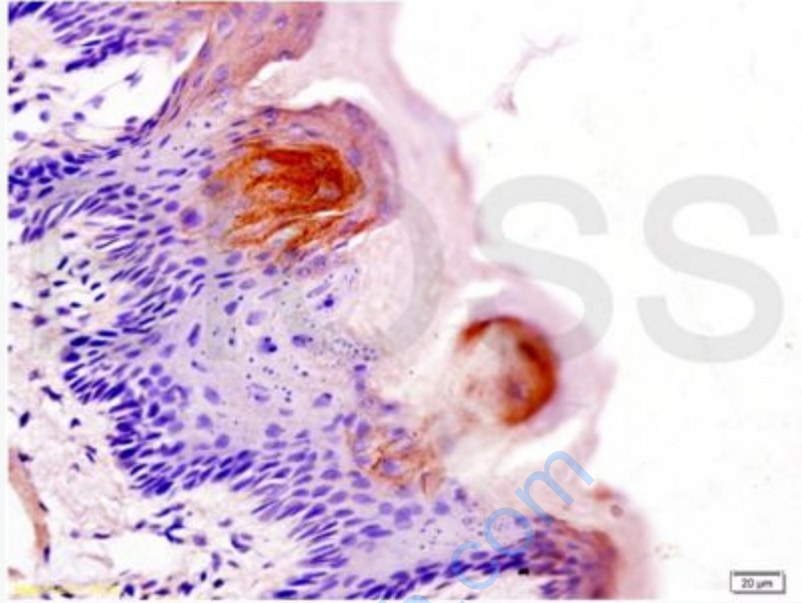
Sample: Lung (mouse) Lysate at 40 ug

Primary: Anti- AQP3 (SL1253R) at 1/300 dilution

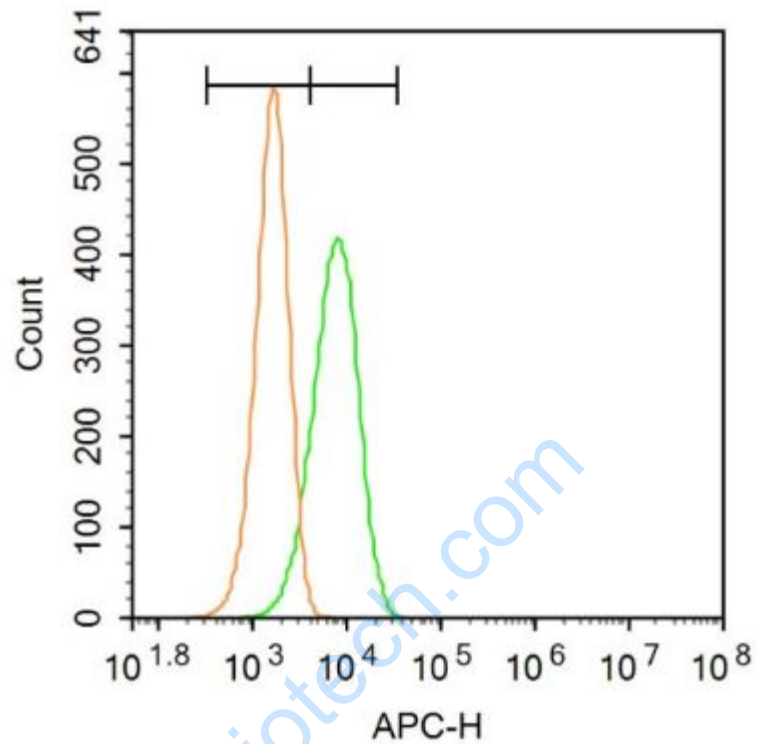
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 32kD

Observed band size: 27kD



Tissue/cell: rat taste buds; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-AQP-3 Polyclonal Antibody, Unconjugated(SL1253R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Hela.

Primary Antibody (green line): Rabbit Anti-AQP3 antibody (SL1253R)

Dilution:  $3\mu\text{g} / 10^6$  cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody: Goat anti-rabbit IgG-AF647

Dilution:  $3\mu\text{g} / \text{test}$ .

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

