

## Rabbit Anti-AQP7 antibody

SL2506R

Product Name:	AQP7
Chinese Name:	水Channel protein-7抗体
Alias:	aquaporin Protein-7; AQP7; AQP7L; AQP9; AQPap; Aqpap7; Aquaporin 7; Aquaporin-7 like; MGC149555; MGC149556; AQP7 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human, Mouse, Rat, Chicken, Dog, Pig, Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=2ug/testIF=1:100- 500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	37kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human AQP7:251- 342/342 <cytoplasmic></cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	Water is a critical component of all living cells. Interestingly, tissue membranes show a great degree of water permeability. Mammalian red cells, renal proximal tubules, and descending thin limb of Henle are extraordinarily permeable to water. Water crosses hydrophobic plasma membranes either by simple diffusion or through a facilitative transport mechanism mediated by special protein "aquaporin". Over the last decade,

genes for several members of aquaporin family have been cloned, expressed, and their distribution studied in many tissues. AQP0 or MIP26 (major intrinsic protein 26kD), and Aquaporin 1 (AQP1, purified from red cells) also called CHIP28 (channel forming integral protein, 28kD; 268aa; gene locus 7p14) has been the foundation of the growing family of aquaporin. The lens specific AQP0 represents up to 80% of total lens membrane protein. Defects in MIP26 are cause of autosomal dominant cataract. The cataract Fraser mutation (CATFR or Shriveled) is a transposon induced splicing error that substitutes a long terminal repeat sequence for the C terminus of MIP. The lens opacity mutation (LOP) is an amino acid substitution that inhibits targeting of MIP to the cell membrane.

**Function:** 

Forms a channel for water and glycerol (By similarity).

Subcellular Location: Membrane; Multi-pass membrane protein.

Similarity: Belongs to the MIP/aquaporin (TC 1.A.8) family.

**SWISS:** 014520

Gene ID: 364

Database links:

Entrez Gene: 364Human

Entrez Gene: 11832Mouse

Entrez Gene: 29171Rat

Omim: 602974Human

SwissProt: O14520Human

SwissProt: O54794Mouse

SwissProt: P56403Rat

Unigene: 455323Human

Unigene: 8728Mouse

Unigene: 11111Rat

**Important Note:** 







temperature. Acquisition of 20,000 events was performed.

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