

**AQP0 Polyclonal Antibody**

|                              |   |
|------------------------------|---|
| <b>Catalog No :</b>          | YT0286  |
| <b>Reactivity :</b>          | Human;Mouse;Rat   |
| <b>Applications :</b>        | WB;IHC;IF;ELISA   |
| <b>Target :</b>              | AQP0  |
| <b>Gene Name :</b>           | MIP   |
| <b>Protein Name :</b>        | Lens fiber major intrinsic protein  |
| <b>Human Gene Id :</b>       | 4284  |
| <b>Human Swiss Prot No :</b> | P30301  |
| <b>Mouse Gene Id :</b>       | 17339   |
| <b>Mouse Swiss Prot No :</b> | P51180  |
| <b>Rat Swiss Prot No :</b>   | P09011  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human AQP0. AA range:95-144                       |
| <b>Specificity :</b>         | AQP0 Polyclonal Antibody detects endogenous levels of AQP0 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200   |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 28kD

**Background :** Major intrinsic protein is a member of the water-transporting aquaporins as well as the original member of the MIP family of channel proteins. The function of the fiber cell membrane protein encoded by this gene is undetermined, yet this protein is speculated to play a role in intracellular communication. The MIP protein is expressed in the ocular lens and is required for correct lens function. This gene has been mapped among aquaporins AQP2, AQP5, and AQP6, in a potential gene cluster at 12q13. [provided by RefSeq, Jul 2008],

**Function :** disease:Defects in MIP are a cause of autosomal recessive congenital cataract [MIM:154050].,domain:Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).,function:Water channel. May be responsible for regulating the osmolarity of the lens.,similarity:Belongs to the MIP/aquaporin (TC 1.A.8) family.,tissue specificity:Major component of lens fiber gap junctions.,

**Subcellular Location :** Cell membrane ; Multi-pass membrane protein . Cell junction, gap junction .

**Expression :** Expressed in the cortex and nucleus of the retina lens (at protein level) (PubMed:30790544). Major component of lens fiber gap junctions (PubMed:24120416).

**Sort :** 2178

**No4 :** 1

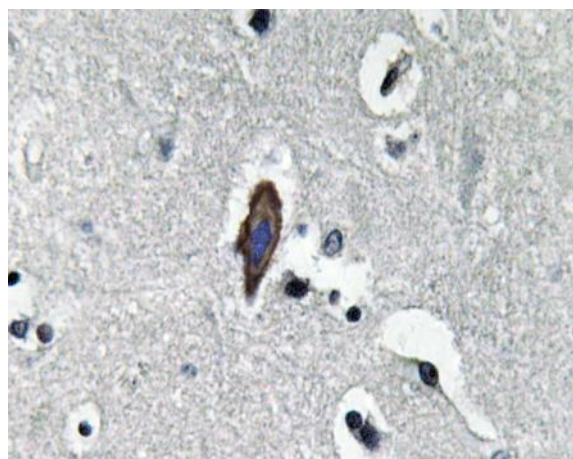
**Host :** Rabbit

**Modifications :** Unmodified

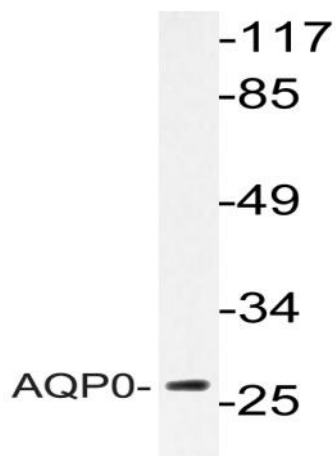
## Products Images



Western Blot analysis of various cells using AQP0 Polyclonal Antibody



Immunohistochemistry analysis of AQP0 antibody in paraffin-embedded human brain tissue.



Western blot analysis of lysate from HT-29 cells, using AQP0 antibody.