

## Product datasheet for AP20566PU-N

# Aguaporin 4 (AQP4) Rabbit Polyclonal Antibody

**Product data:** 

**Product Type: Primary Antibodies** 

IHC, WB **Applications:** 

Recommended Dilution: Western blot: 1/500-1/1000.

**Immunohistochemistry on Paraffin Sections:** 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Synthetic peptide, corresponding to amino acids 220-270 of Human AQP4. Immunogen:

This antibody detects endogenous levels of AQP4 protein. Specificity:

(region surrounding Pro253)

Formulation: Phosphate buffered saline (PBS), pH~7.2

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)

Preservative: 0.05% Sodium Azide

Concentration: 1.0 mg/ml

**Purification:** Affinity Chromatography using epitope-specific immunogen

Conjugation: Unconjugated

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Storage:

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

**Predicted Protein Size:** ~ 35 kDa

Gene Name: aquaporin 4

Database Link: Entrez Gene 11829 MouseEntrez Gene 25293 RatEntrez Gene 361 Human

P55087



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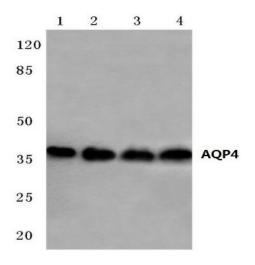
#### Background:

In skeletal muscle, AQP4 (aquaporin 4 also known as mercurial insensitive water channel), localizes to the sarcolemma of fast-twitch muscle fibers. 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.

Synonyms: AQP-4, WCH4, MIWC

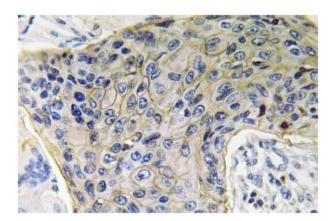
**Protein Families:** Druggable Genome, Transmembrane

### **Product images:**



Western blot analysis of AQP4 Antibody at 1/500 dilution. Lane 1: HeLa whole cell lysate. Lane 2: Jurkat whole cell lysate. Lane 3: PC12 whole cell lysate. Lane 4: sp2/0 whole cell lysate.





Immunohistochemistry analysis of AQP4 Antibody in Paraffin-Embedded Human lung carcinoma tissue.