Product Information Sheet

# Polyclonal Anti- Aquaporin 5, *AQP5*

**Catalogue No.** PA1230

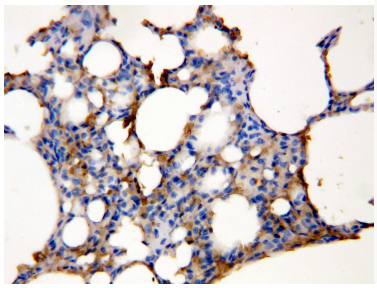
**Lot No.** 08G01

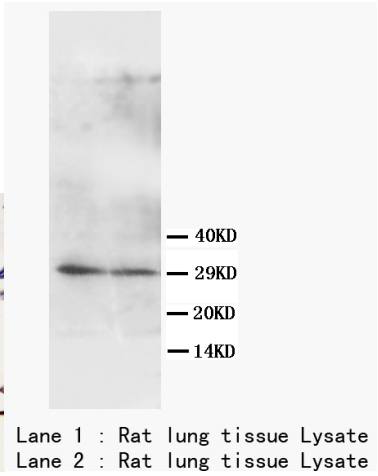
**Ig type** rabbit IgG

**Size** 100µg/vial

**Specificity**
Rat, mouse
No cross reactivity with other proteins.

**Recommended application**
*Western blot*





Lane 1 : Rat lung tissue Lysate
Lane 2 : Rat lung tissue Lysate

**Immunogen**
A synthetic peptide corresponding to a sequence at the C-terminal of human AQP5, different to the related rat sequence by three amino acids.

**Purity**
Immunogen affinity purified.

**Application**

| | Concen-tration | Tested Species | Concluded Species | Antigen Retrieval |
|---|---|---|---|---|
| WB | 1µg/ml | Rat | Ms | - |
| IHC-P | - | - | - | - |
| IHC-F | - | - | - | - |
| ICC | - | - | - | - |

*Other applications have not been tested.*
*Optimal dilutions should be determined by end user.*

**Contents**
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg $Na_2HPO_4$, 0.05mg Thimerosal, 0.05mg $NaN_3$.

**Reconstitution**
0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage**
At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

**To reorder contact us at:**
**Antagene, Inc.**
**Toll Free: 1(866)964-2589**
**email: Info@antageneinc.com**

**BACKGROUND**

Aquaporin 5, also known as AQP5, is a water channel protein. The aquaporins (AQPs) are a family of more than 10 homologous water transporting proteins expressed in many mammalian epithelia and endothelia. At least five AQPs are expressed in the eye: AQP0 (MIP) in lens fiber, AQP1 in cornea endothelium, ciliary and lens epithelia and trabecular meshwork, AQP3 in conjunctiva, AQP4 in ciliary epithelium and retinal Müller cells, and AQP5 in corneal and lacrimal gland epithelia.[1] Among the seven human aquaporins cloned to date (AQPs 0-6), genes encoding the four most closely related aquaporins (AQP0, AQP2, AQP5, and AQP6) have been mapped to chromosome band 12q13, suggesting an aquaporin family gene cluster at this locus.[2] Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions.

***REFERENCE***


1. Verkman AS (2003). "Role of aquaporin water channels in eye function.". *Exp. Eye Res.* 76 (2): 137–43.
2. Ma T, Yang B, Umenishi F, Verkman AS (1997). "Closely spaced tandem arrangement of AQP2, AQP5, and AQP6 genes in a 27-kilobase segment at chromosome locus 12q13.". *Genomics* 43 (3): 387–9.