

Datasheet for ABIN3030007

**anti-Aquaporin 4 antibody (AA 258-27)**

5 Images

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## Overview

Quantity:	100 µg
Target:	Aquaporin 4 (AQP4)
Binding Specificity:	AA 258-27
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Aquaporin 4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	Amino acids 258-27 (FKRRFKEAFSKAAQGTK) were used as the immunogen for this Aquaporin 4 antibody.
Isotype:	IgG
Purification:	Antigen affinity

## Target Details

Target:	Aquaporin 4 (AQP4)
Alternative Name:	Aquaporin 4 ( <a href="#">AQP4 Products</a> )
Background:	Aquaporin 4, also known as Mercurial-Insensitive Water Channel (MIWC), is protein which in humans is encoded by the AQP4 gene. The aquaporins are a family of water-selective membrane channels found in animals, plants, and microorganisms. AQP4 is the predominant

## Target Details

water channel in the brain and has an important role in brain water homeostasis. By fluorescence in situ hybridization, Lu et al.(1996) determined that the AQP4 gene maps to 18q11.2-q12.1. By interspecific backcross analysis, Turtzo et al.(1997) mapped the mouse Aqp4 gene to the proximal region of chromosome 18. Analyzing the expression of AQP4 in mammalian skeletal muscle, Frigeri et al.(1998) found that, in immunohistochemical experiments, affinity-purified AQP4 antibodies stained selectively the sarcolemma of fast-twitch fibers. Immunocytochemistry revealed strong AQP4 water channel expression in Muller cells in mouse retina and in fibrous astrocytes in optic nerve.

UniProt: [P55087](#)

Pathways: [Sensory Perception of Sound](#)

## Application Details

Application Notes: The stated application concentrations are suggested starting points. Titration of the Aquaporin 4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL

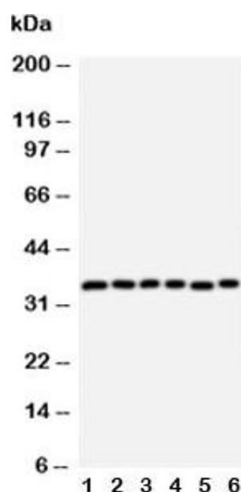
Restrictions: For Research Use only

## Handling

Buffer: 0.5 mg/mL if reconstituted with 0.2 mL sterile DI water

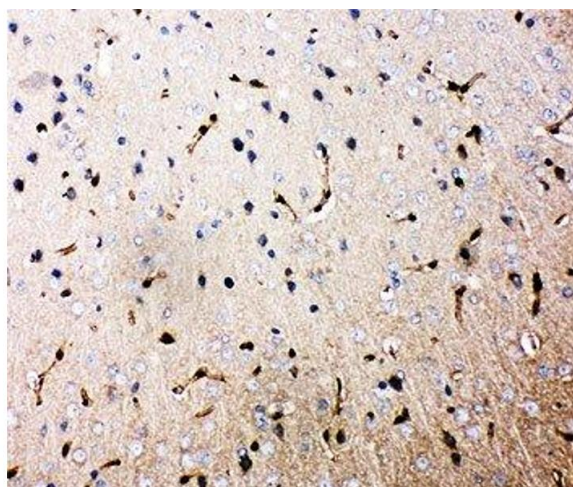
Storage: -20 °C

Storage Comment: After reconstitution, the Aquaporin 4 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.



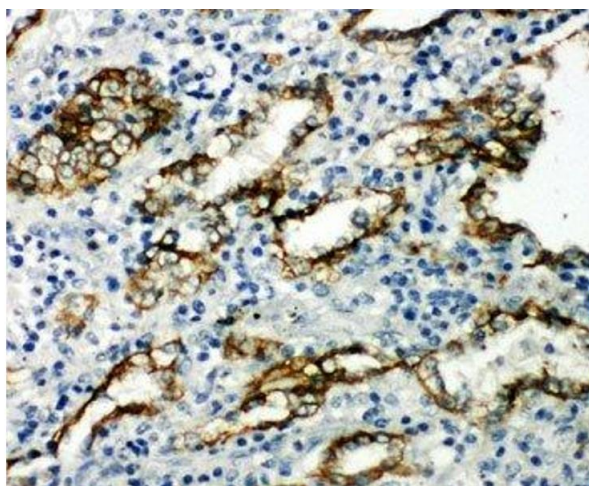
#### Western Blotting

**Image 1.** Western blot testing of Aquaporin 4 antibody and  
Lane 1: rat heart; 2: rat brain; 3: rat kidney; 4: (h) HT1080; 5:  
(h) MCF-7; 6: (h) COLO320 cell lysate



#### Immunohistochemistry

**Image 2.** IHC-P: Aquaporin 4 antibody testing of rat brain  
tissue



#### Immunohistochemistry

**Image 3.** IHC-P: Aquaporin 4 antibody testing of human lung  
cancer tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3030007.