

Mouse Anti-Aquaporin 4 antibody

SLM-33068M

Product Name Aquaporin 4

Chinese Name 水 Channel protein4 单克隆抗体

Alias aquaporin 4; WCH4; Mercurial-insensitive water channel; MIWC; AQP 4; AQP4; Aquaporin4; HMIWC 2; HMIWC2; Mercurial insensitive water channel; MGC22454; MIWC; AQP4_HUMAN; Aquaporin-4; AQP-4.

Research Area Tumour Signal transduction Channel protein The new supersedes the old

Immunogen Species Mouse

Clonality Monoclonal

Clone NO. 6G1

React Species Human,Mouse,Rat

Applications IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 36kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human Aquaporin 4 Protein

Lsotype IgG1

Purification affinity purified by Protein G

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

[PubMed](#)

This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. The encoded protein is the predominant aquaporin found in brain. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Function:

Forms a water-specific channel. Osmoreceptor which regulates body water balance and mediates water flow within the central nervous system.

Subunit:

Homotetramer. Part of a complex containing MLC1, TRPV4, HEPACAM and ATP1B1.

Subcellular Location:

Membrane; Multi-pass membrane protein.

Tissue Specificity:

Brain, muscle, heart, kidney, lung, and trachea.

**Product
Detail**

Similarity:

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

SWISS:

P55087

Gene ID:

361

Database links:

[Entrez Gene: 281008](#) Cow

[Entrez Gene: 361](#) Human

[Entrez Gene: 11829](#) Mouse

[Entrez Gene: 25293](#) Rat

[Omim: 600308](#) Human

[SwissProt: O77750](#) Cow

[SwissProt: P55087](#) Human

[SwissProt: P55088](#) Mouse

[SwissProt: P47863](#) Rat

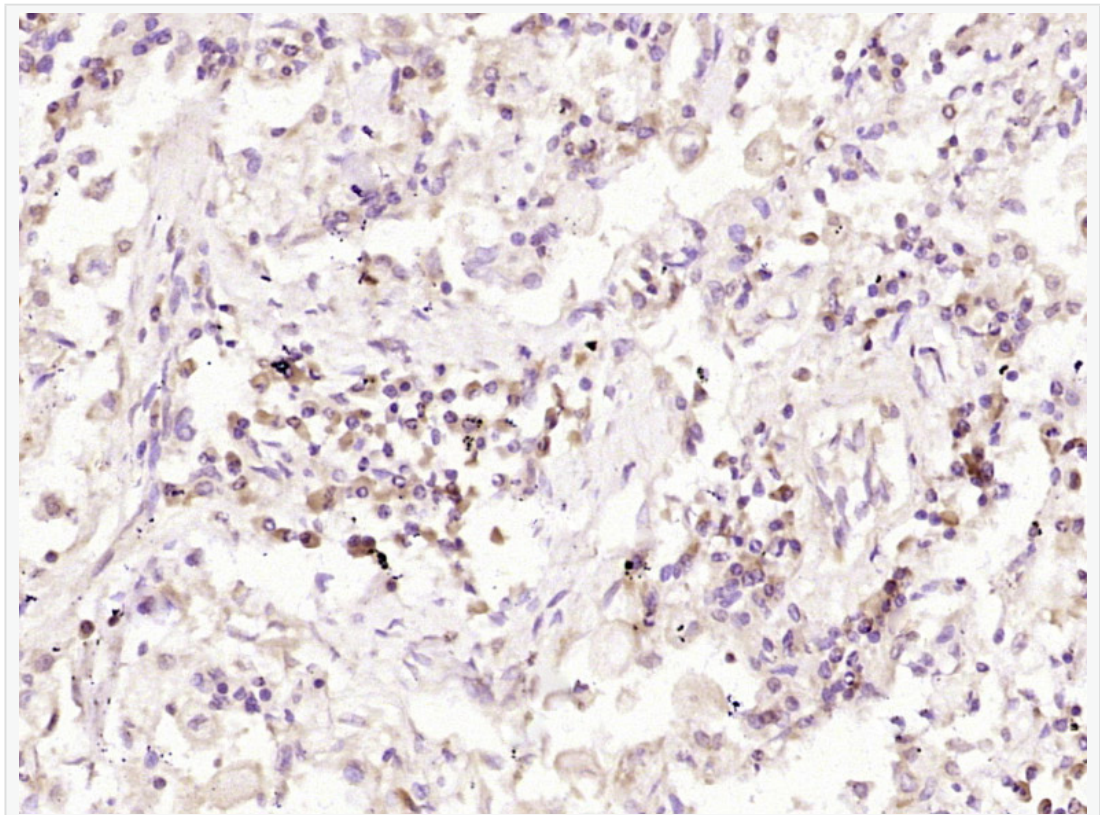
[Unigene: 281008](#) Cow

[Unigene: 315369](#) Human

[Unigene: 250786](#) Mouse

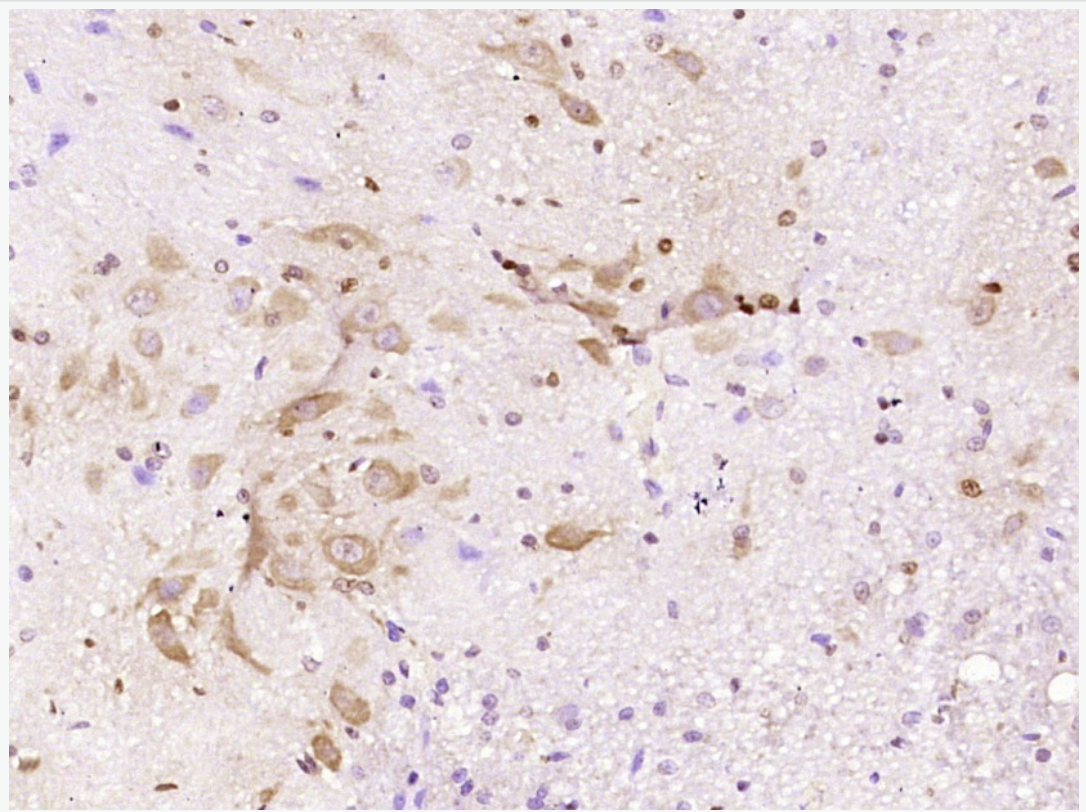
[Unigene: 90091](#) Rat

**Product
Picture**

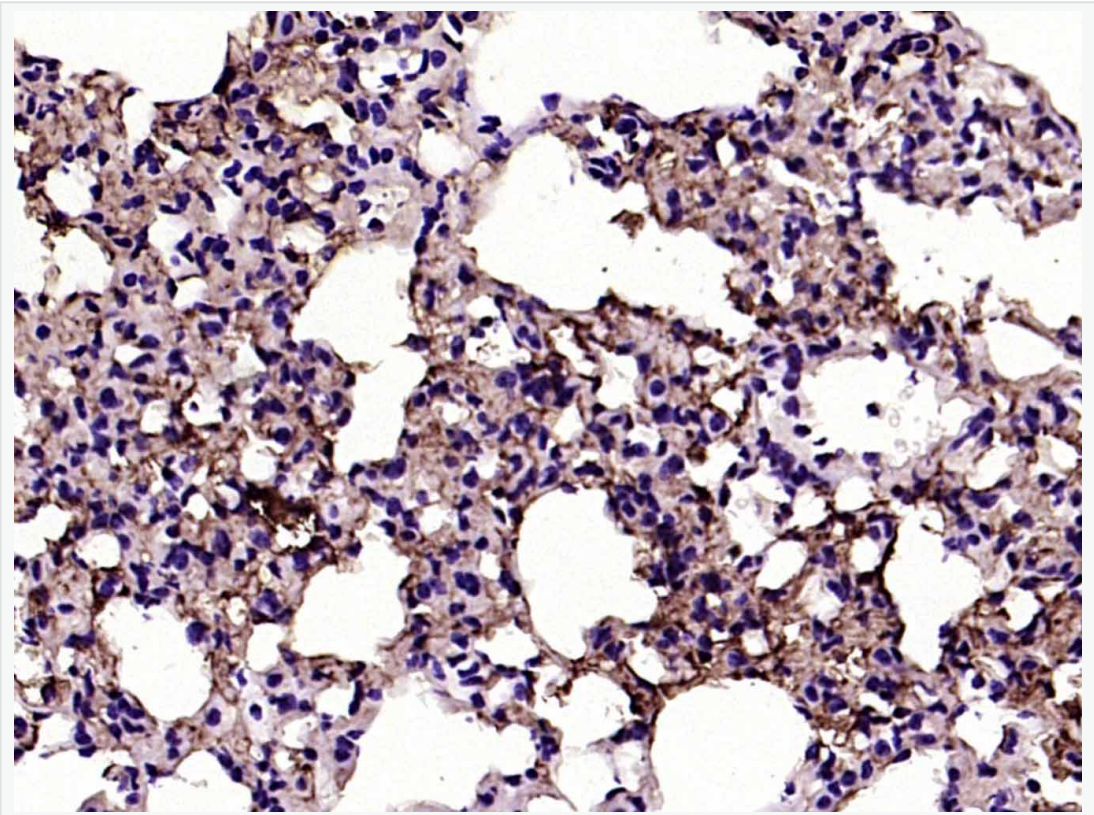


Paraformaldehyde-fixed, paraffin embedded (Human lung cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat

serum) at 37°C for 30min; Antibody incubation with (Aquaporin 4) Monoclonal Antibody, Unconjugated (SLM-33068M) at 1:800 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Aquaporin 4) Monoclonal Antibody, Unconjugated (SLM-33068M) at 1:800 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse lung); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Aquaporin 4) Monoclonal Antibody, Unconjugated (ascites of SLM-33068M 6G1) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse) (sp-0024) instructions and DAB staining.