

## Aquaporin 4 Monoclonal Antibody(4H1)

### Description

Product type	Primary Antibody
Code	BT-MCA0007
Host	Mouse
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	Synthetic Peptide of Aquaporin 4
Mol wt	34830
Species reactivity	Human,Mouse,Rat
Clonality	Monoclonal
Recommended application	WB, IHC-p, IF, ICC
Concentration	1 mg/ml
Full name	Aquaporin-4
Synonyms	AQP4; Aquaporin-4; AQP-4; Mercurial-insensitive water channel; MIWC; WCH4

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

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. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.

### Recommended Dilution

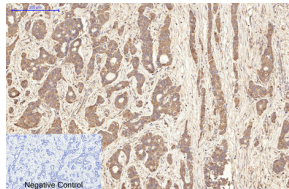
IF: 1:100-200

IHC: 1:50-300

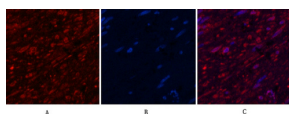
WB: 1:1000

Not yet tested in other applications.

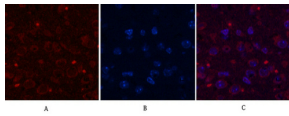
### Images



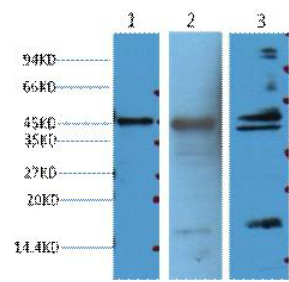
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1.Aquaporin 4 Monoclonal antibody(4H1) was diluted at 1:200(4°C,overnight). 2.Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3.Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



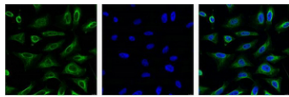
Immunofluorescence analysis of Human-appendix tissue. 1.Aquaporin 4 Monoclonal antibody(4H1) (red) was diluted at 1:200(4°C,overnight). 2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3. Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



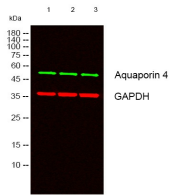
Immunofluorescence analysis of Mouse-brain tissue. 1. Aquaporin 4 Monoclonal antibody(4H1)(red) was diluted at 1:200(4°C, overnight). 2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3. Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of 1) HeLa, 2) Mouse Heart tissue, 3) Rat Heart Tissue diluted at 1:2000.



IF analysis of HeLa with antibody (Left) and DAPI (Right) diluted at 1:100.



Western blot analysis of lysates from 1) HeLa, 2) Mouse Heart tissue, 3) Rat Heart Tissue cells, (Green) primary antibody was diluted at 1:1000, 4° overnight, secondary antibody was diluted at 1:10000, 37°C 1hour. (Red) GAPDH Polyclonal Antibody antibody was diluted at 1:5000 as loading control, 4°C overnight, secondary antibody was diluted at 1:10000, 37°C 1hour.

### Storage

-20°C for one year

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