

Mouse Aquaporin 4 Monoclonal Antibody | anti-AQP4 antibody

Aquaporin 4 Monoclonal Antibody (4H1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320421	Mouse	Human, Mouse, Rat	Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

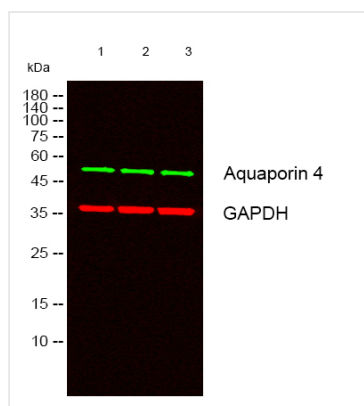
PRODUCT SYNONYMS

Aquaporin 4; Monoclonal Antibody; Aquaporin 4 Monoclonal Antibody (4H1); Aquaporin-4; AQP4; AQP-4; Mercurial-insensitive water channel; MIWC; WCH4; anti-AQP4 antibody

PRODUCT SPECIFICATIONS

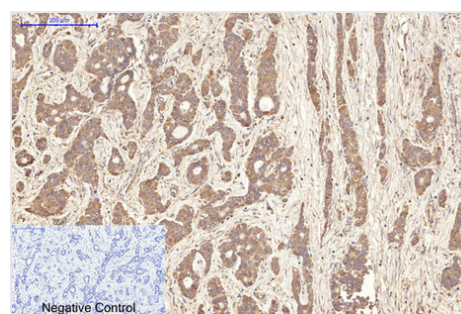
Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	4H1
Specificity	The antibody detects endogenous Aquaporin 4 proteins.
Purity/Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Form/Format	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Applicable Applications for anti-AQP4 antibody	ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Synthetic Peptide of Aquaporin 4
Modification	Unmodified/Total
Preparation and Storage	Store at -20 degree C/1 year

IMAGES



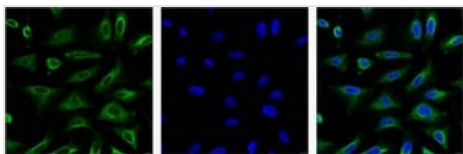
IF (Immunofluorescence)

Immunofluorescence analysis of Human-appendix tissue. 1. Aquaporin 4 Monoclonal Antibody (4H1) (red) was diluted at 1:200 (4 degree 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



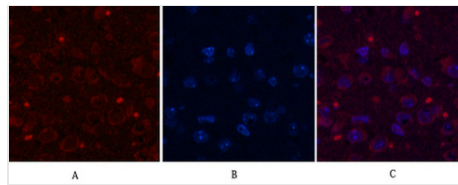
IF (Immunofluorescence)

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



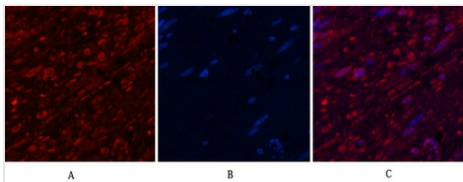
IHC (Immunohistochemistry)

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



WB (Western Blot)

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 degree over night. secondary antibody was diluted at 1:10000. 37 degree 1hour. (Red) GAPDH Polyclonal Antibody antibody was diluted at 1:5000 as loading control. 4 degree over night. secondary antibody was diluted at 1:10000. 37 degree 1hour.



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-AQP4 antibody

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. [provided by RefSeq, Dec 2015]

Product Categories/Family for anti-AQP4 antibody

[Primary Antibodies](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	2506859
NCBI GeneID	361
UniProt Accession #	P55087; P78564
Molecular Weight	323
NCBI Official Full Name	Aquaporin-4
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	AQP4
NCBI Official Synonym Symbols	MIWC; HMIWC2
NCBI Protein Information	aquaporin-4; WCH4; aquaporin type4; aquaporin 4 isoform delta4; mercurial-insensitive water channel
UniProt Protein Name	Aquaporin-4
UniProt Gene Name	AQP4
UniProt Synonym Gene Names	AQP-4; MIWC
UniProt Entry Name	AQP4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

