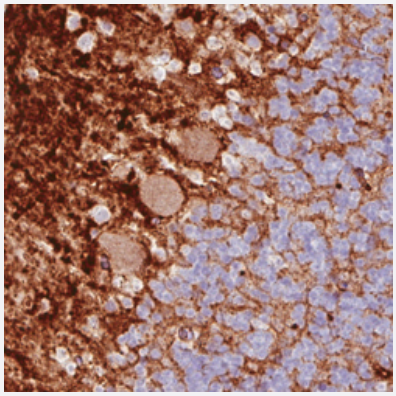
Sm Size

AQP4 monoclonal antibody, clone CL0178

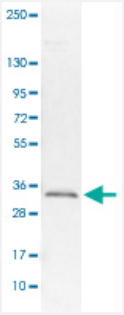
Catalog # MAB15552 Size 25 uL, 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum with AQP4 monoclonal antibody, clone CL0178 (Cat # MAB15552) shows strong immunoreactivity in the molecular layer.



Western Blot (Cell lysate)

Western Blot analysis of U-251 MG cell lysate with AQP4 monoclonal antibody, clone CL0178 (Cat # MAB15552).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human AQP4.
Immunogen	Recombinant protein corresponding to human AQP4.
Epitope	This antibody binds to an epitope located within the peptide sequence FKRRFKEAFS as determined by overlapping synthetic peptides.
Sequence	CPDVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVETDDLILKPGVVHVIDVDRGEEKKGKDQSGEVLSSV

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Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:500) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human cerebellum with AQP4 monoclonal antibody, clone CL0178 (Cat # MAB15552) shows strong immunoreactivity in the molecular layer.

- Western Blot (Cell lysate)

  Western Blot analysis of U-251 MG cell lysate with AQP4 monoclonal antibody, clone CL0178 (Cat # MAB15552).

Gene Info — AQP4

Entrez GeneID	361
Protein Accession#	P55087
Gene Name	AQP4
Gene Alias	HMIWC2, MGC22454, MIWC
Gene Description	aquaporin 4
Omim ID	600308
Gene Ontology	Hyperlink

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Gene Summary	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 distin ct isoforms have been found for this gene. [provided by RefSeq
Other Designations	aquaporin type4|aquaporin-4|mercurial-insensitive water channel

Disease

- Atherosclerosis
- Brain Edema
- Brain Injuries
- Epilepsy
- Genetic Predisposition to Disease
- Infarction
- Migraine Disorders
- Schizophrenia
- Sclerosis
- Sudden Infant Death

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