

Anti mouse AQP4 mouse monoclonal antibody

AQP4: Aquaporin 4

Code No	PP-E5415A-0C-100
Clone No.	E5415A
Lot.	B-1
Concentration	1 mg/mL
Volume	100 uL
Ig Class	G2a
Description	AQP4 (Aquaporin-4) is a water channel protein primarily found in the central nervous system, residing in cell membranes. AQP4 facilitates the movement of water and maintains water balance within the brain, regulating the flow of cerebrospinal fluid. Aberrations in this protein are associated with conditions like brain edema, particularly in the context of neuroimmune disorder neuromyelitis optica (NMO).
Genbank	U88623
Origin	Hybridoma obtained by fusion of mouse myeloma cells with spleen cells from AQP4KO mice immunized with mouse AQP4 recombinant.
Epitope	
Specificity	This antibody specifically reacts with mouse AQP4 M1 (isoform2) and M23 (isoform1) and cross-reacts with rat AQP4.
Purification	Affinity chromatography with Protein A
Formulation	Physiological saline with 0.1% NaN ₃ as a preservative.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot	Not applicable
Non reducing Western Blot	Not applicable
ELISA	Cell-Based ELISA 0.1 ug/mL
Immunoprecipitation	Not yet tested
Supershift Assay	Not yet tested
Chromatin immunoprecipitation	Not yet tested
Immunohistochemistry	Not yet tested

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference 1. Kurosawa, K., et. al. (2015). Acta Neuropathol Commun. 3:82.
2. Huang, P., et. al. (2016). Biochem Biophys Res. 7:77-83.

Notes Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

FOR RESEARCH ONLY. NOT FOR USE IN HUMANS.

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