Aquaporin 4 (AQP4) Antibody

Mouse Monoclonal Antibody [Clone BICCN-AQP4-1B5]

Catalog No	Format	Size
361-MSM8-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
361-MSM8-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
361-MSM8-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	BICCN-AQP4-1B5
Immunogen	Recombinant fragment (around aa 209-321) of human AQP4 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	34.83kDa
Cellular Localization	Basolateral cell membrane, Cell membrane, Cell projection, Endosome membrane, Sarcolemma
Species Reactivity	Human
Positive Control	Detected in skeletal muscle (PubMed:29055082)

**Optimal dilution for a specific application should be determined.*

Product Images for Aquaporin 4 (AQP4) Antibody

Specificity & Comments

Forms a water-specific channel (PubMed:19383790, PubMed:7559426, PubMed:8601457). Plays an important role in brain water homeostasis (PubMed:37143309). It is involved in glymphatic solute transport and is required for a normal rate of water exchange across the blood brain interface. Required for normal levels of cerebrospinal fluid influx into the brain cortex and parenchyma along paravascular spaces that surround penetrating arteries, and for normal drainage of interstitial fluid along paravenous drainage pathways. Thereby, it is required for normal clearance of solutes from the brain interstitial fluid, including soluble beta-amyloid peptides derived from APP. Plays a redundant role in urinary water homeostasis and urinary concentrating ability (By similarity).

Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.