

Aquaporin 4 (AQP4) Antibody

Mouse Monoclonal Antibody [Clone BICCN-AQP4-2C5]

Catalog No	Format	Size
361-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug
361-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
361-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug

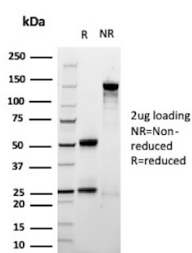
Applications	Tested Dillution	Note
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Product Details

Clone	BICCN-AQP4-2C5
Gene Name	AQP4
Immunogen	Human recombinant AQP4 protein fragment (around aa200-323) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2c / Kappa
Mol. Weight of Antigen	34kDa
Cellular Localization	Basolateral cell membrane, Cell membrane, Cell projection, Endosome membrane, Sarcolemma
Species Reactivity	Human
Positive Control	Human skeletal muscle, small intestine or brain tissue.

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

Product Images for Aquaporin 4 (AQP4) Antibody



SDS-PAGE Analysis of Purified AQP4 Mouse Monoclonal Antibody (BICCN-AQP4-2C5). Confirmation of Purity and Integrity of Antibody.

Specificity & Comments

In skeletal muscle, AQP4 (aquaporin 4 also known as mercurial insensitive water channel), localizes to the sarcolemma of fast-twitch muscle fibers. Aquaporins (AQPs) are a large family of integral membrane water transport channel proteins that facilitate the transport of water through the cell membrane. This function is conserved in animals, plants and bacteria. Many isoforms of aquaporin have been identified in mammals, designated AQP0 through AQP10. Aquaporins are widely distributed and it is not uncommon for more than one type of AQP to be present in the same cell. Although most aquaporins are only permeable to water, AQP3, AQP7, AQP9 and one of the two AQP10 transcripts are also permeable to urea and glycerol. AQP2 is the only water channel that is activated by vasopressin to enhance water reabsorption in the kidney collecting duct. Aquaporins are involved in renal water absorption, generation of pulmonary secretions, lacrimation and the secretion and reabsorption of cerebrospinal fluid and aqueous humor.

Supplied As

200ug/ml of Ab produced in HEK293 cell mammalian-based expression system. 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.

Research Areas

Neuroscience

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.
