

Product Datasheet

Aquaporin-4 Antibody (C9401) - Chimeric - BSA Free NBP3-43559

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP3-43559

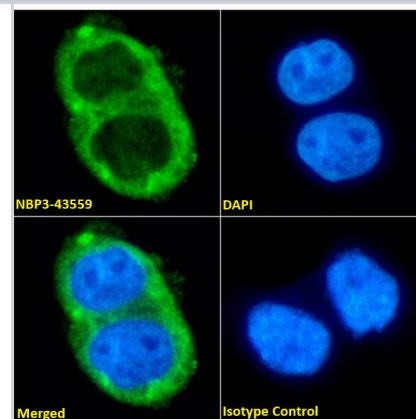
Aquaporin-4 Antibody (C9401) - Chimeric - BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	C9401
Preservative	0.02% Proclin 300
Isotype	IgG
Purity	Protein A purified
Buffer	PBS
Product Description	
Description	This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG2b format for improved compatibility with existing reagents assays and techniques.
Host	Rabbit
Gene ID	361
Gene Symbol	AQP4
Species	Human
Specificity/Sensitivity	This antibody recognizes and binds extracellular domains of both the M1 and M23 isoforms of human aquaporin 4 (AQP4), but not mouse aquaporin 4. AQP4 is a water channel expressed on astrocytes throughout the CNS and in skeletal muscle and some epithelial cells outside of the CNS. It plays an important role in brain water homeostasis and in glymphatic solute transport. Neuromyelitis optica spectrum disorder (NMOSD) is an inflammatory disease of the central nervous system (CNS) that is associated with demyelination and neurological deficits in optic nerve, spinal cord and brainstem. Most NMOSD patients are seropositive for IgG autoantibodies (NMO-IgG) directed against extracellular epitopes of aquaporin-4 (AQP4). Prevention of the binding of NMO-IgG, therefore, may alleviate the disease.
Immunogen	The original antibody was generated by immunizing an aquaporin 4 knock out mice with human AQP4 as an immunogen expressed on the surface of baculovirus. (Uniprot# P55087)
Product Application Details	
Applications	ELISA, Flow Cytometry, Immunoprecipitation, Neutralization
Recommended Dilutions	Flow Cytometry, ELISA, Immunoprecipitation, Neutralization

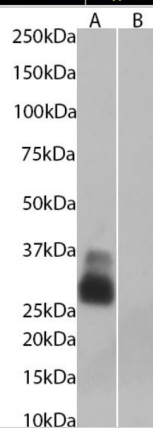


Images

Immunocytochemistry /Immunofluorescence: Aquaporin-4 Antibody (C9401) - Chimeric - BSA Free [NBP3-43559] - Immunofluorescence analysis of paraformaldehyde fixed A431 cells on Shi-fix coverslips stained with NBP3-43559 (1:100 dilution) for 1h followed by Alexa Fluor 488 secondary antibody (1:1000 dilution), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show, from left-right, top-bottom: NBP3-43559, DAPI, merged channels, and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



Western Blot: Aquaporin-4 Antibody (C9401) - Chimeric - BSA Free [NBP3-43559] - Unboiled (A) and boiled (B) human skeletal muscle tissue lysates (35ug protein in RIPA buffer) were resolved via SDS-PAGE, and the subsequent blots were probed with NBP3-43559 at 0.3ug/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 hour was used, and proteins were detected by chemiluminescence.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-52872PEP	Aquaporin-4 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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