

Product Datasheet

Aquaporin-4 Antibody (D15107) - Chimeric - Azide and BSA Free **NBP3-43560**

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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NBP3-43560

Aquaporin-4 Antibody (D15107) - Chimeric - Azide and 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	D15107
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 IgG2a format for improved compatibility with existing reagents assays and techniques.
Host	Rabbit
Gene ID	361
Gene Symbol	AQP4
Species	Human, Mouse
Specificity/Sensitivity	This antibody recognizes and binds the extracellular domains of both the M1 and M23 isoforms of human aquaporin 4 (AQP4). It also binds the M23 isoform of mouse aquaporin 4, and does not recognize the M1 isoform of 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





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Products Related to NBP3-43560

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-87679PEP	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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