Product Datasheet

Aquaporin-4 Antibody - BSA Free NBP1-87679

Unit Size: 0.1 ml

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



Reviews: 2 Publications: 22

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NBP1-87679

Aquaporin-4 Antibody - BSA Free

Product Information		
0.1 ml		
Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.		
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.		
Polyclonal		
0.02% Sodium Azide		
IgG		
Immunogen affinity purified		
PBS (pH 7.2), 40% Glycerol		
35 kDa		
Product Description		
Rabbit		
361		
AQP4		
Human, Mouse, Rat, Bovine		
Use in Rat reported in scientific literature (PMID:33634832). Bovine reactivity reported in scientific literature (PMID: 31233960).		
Astrocytes Marker		
This antibody was developed against Recombinant Protein corresponding to amino acids: CPDVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVETDDLILKPGVVHVIDVD RGEEKKGKDQSGEVLSSV		
Product Application Details		
Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation		
Western Blot 0.04 - 0.4 ug/mL, Immunohistochemistry 1:2500 - 1:5000, Immunoprecipitation Reported in scientific literature (PMID: 32843684), Immunohistochemistry-Paraffin 1:2500 - 1:5000, Immunohistochemistry-Frozen Validated from verified customer review.		
For IHC-Paraffin, HIER pH 6 retrieval is recommended.		



Images	
Immunohistochemistry-Paraffin: Aquaporin-4 Antibody [NBP1-87679] - Analysis in human cerebral cortex and liver tissues. Corresponding AQP4 RNA-seq data are presented for the same tissues.	AQP4 in Cerebral cortex AQP4 in Liver RNA [TPM] 100 200 300 400 500
Western Blot: Aquaporin-4 Antibody [NBP1-87679] - Analysis in human brain tissue.	[kDa] S ^{AA} 250 130 100 70 55 35 25 15 10
Immunohistochemistry: Aquaporin-4 Antibody [NBP1-87679] - Staining of mouse cerebellum shows positivity in astrocytes, mainly in the molecular layer.	
Immunohistochemistry-Paraffin: Aquaporin-4 Antibody [NBP1-87679] - Staining of human cerebellum shows moderate to strong membranous positivity in astrocytes, mainly in the molecular layer.	



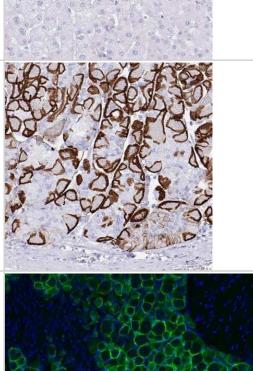
Immunohistochemistry-Paraffin: Aquaporin-4 Antibody [NBP1-87679] -Staining of human cerebral cortex shows moderate to strong membranous positivity in astrocytes.

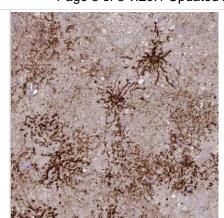
Immunohistochemistry-Paraffin: Aquaporin-4 Antibody [NBP1-87679] - Staining of human liver shows no positivity in hepatocytes, as expected.

Immunohistochemistry-Paraffin: Aquaporin-4 Antibody [NBP1-87679] -Staining of human stomach shows strong membranous positivity in glandular cells.

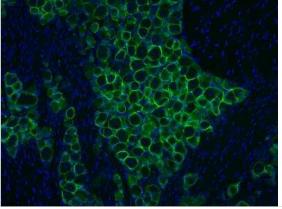
Immunohistochemistry-Frozen: Aquaporin-4 Antibody [NBP1-87679] -Mouse trigeminal ganglion stained with Aquaporin-4 antibody at 1:5000. Image submitted by a verified customer review











Publications

Munro DAD, Bestard-Cuche N, McQuaid C, Chagnot A et Al. Microglia protect against age-associated brain pathologies Neuron 2024-06-19 [PMID: 38897208]

Yang Q, Yasvoina M, Olvera-Barrios A et al. Deciphering the Connection Between Microvascular Damage and Neurodegeneration in Early Diabetic Retinopathy Diabetes 2024-11-01 [PMID: 38968415]

C Beretta, E Svensson, A Dakhel, M Zyśk, J Hanrieder, D Sehlin, W Michno, A Erlandsson Amyloid-β deposits in human astrocytes contain truncated and highly resistant proteoforms. Molecular and cellular neurosciences 2024-01-18 [PMID: 38244652]

Micha?ek K, Oberska P, Murawski M et al. Kidney morphology and renal expression of aquaporins 2, 3 and 4 during cerulein - Induced chronic pancreatitis in pigs Advances in medical sciences 2023-09-12 [PMID: 37708639] (WB, IHC-Fr, Porcine)

Palavicini JP, Ding L, Pan M et al. Sulfatide Deficiency, an Early Alzheimer's Lipidomic Signature, Causes Brain Ventricular Enlargement in the Absence of Classical Neuropathological Hallmarks International Journal of Molecular Sciences 2022-12-23 [PMID: 36613677] (Immunohistochemistry, Western Blot, Block/Neutralize)

Konstantinidis E, Dakhel A, Beretta C, Erlandsson A Long-term effects of amyloid-beta deposits in human iPSCderived astrocytes Molecular and cellular neurosciences 2023-03-11 [PMID: 36907531] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human)

Wypych A, Dunis?awska A, Grabowska M et al. Effects of three-month feeding high-fat diets with differentfatty acid composition on kidney histology and expression genes related to cellular stress and water-electrolytehomeostasis in mice Journal of Animal and Feed Sciences 2023-06-22 (Immunohistochemistry-Paraffin, Mouse)

Zy?k M, Beretta C, Naia L et al. Amyloid-? accumulation in human astrocytes induces mitochondrial disruption and changed energy metabolism Journal of neuroinflammation 2023-02-20 [PMID: 36803838] (Immunocytochemistry/ Immunofluorescence)

Xu C, Wang F, Su C et al. Restoration of aquaporin-4 polarization in the spinal glymphatic system by metformin in rats with painful diabetic neuropathy Neuroreport 2023-02-01 [PMID: 36719843] (WB, IHC-P, Rat)

Wang GQ, Wang FX, He YN, Lin JY Plasticity of the spinal glymphatic system in male SD rats with painful diabetic neuropathy induced by type 2 diabetes mellitus Journal of neuroscience research 2022-07-07 [PMID: 35796387]

Wang FX, Xu CL, Su C et al. beta-Hydroxybutyrate Attenuates Painful Diabetic Neuropathy via Restoration of the Aquaporin-4 Polarity in the Spinal Glymphatic System Frontiers in neuroscience 2022-07-11 [PMID: 35898407]

Xue Y, Gursky Z, Monte B et al. Sustained glymphatic transport and impaired drainage to the nasal cavity observed in multiciliated cell ciliopathies with hydrocephalus Fluids and barriers of the CNS 2022-03-05 [PMID: 35248089] (IHC-Fr, Mouse)

More publications at http://www.novusbio.com/NBP1-87679

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Products Related to NBP1-87679

NBP1-87679PEP	Aquaporin-4 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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