

Product Datasheet

Aquaporin-3 Antibody - BSA Free NBP1-97927

Unit Size: 0.1 ml

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

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Publications: 7

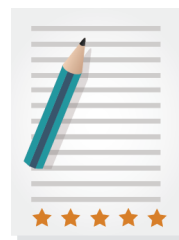
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NBP1-97927

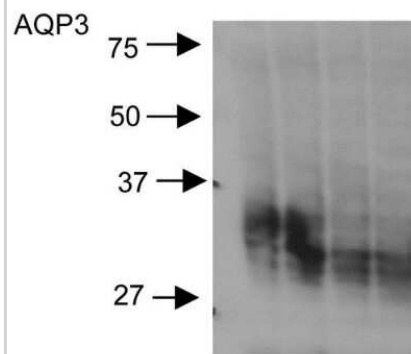
Aquaporin-3 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 50% Glycerol
Target Molecular Weight	32 kDa
Product Description	
Host	Rabbit
Gene ID	360
Gene Symbol	AQP3
Species	Human, Mouse, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:33634832).
Specificity/Sensitivity	Detects approx 31.5kDa. May detect larger glycosylated bands approx 35-50kDa.
Immunogen	Produced against the C-terminal peptide (Sequence N-CHLEQPPPSTEAEENVKLAHMKHKEQI) of rat aquaporin 3
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:2000, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:400, Immunohistochemistry-Paraffin 1:200
Application Notes	0.5 ug/ml of Aquaporin 3 Antibody was sufficient for detection of aquaporin 3 in 10 ug of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary Antibody.

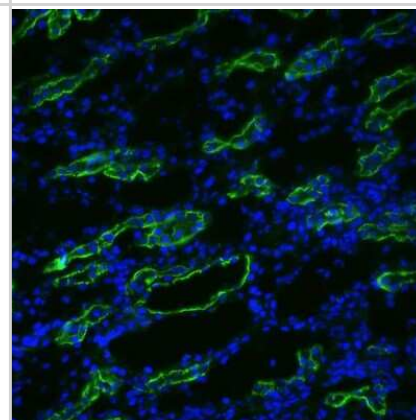


Images

Western Blot: Aquaporin-3 Antibody [NBP1-97927] - Western blot analysis of Rat kidney inner medullary homogenates showing detection of Aquaporin-3 protein using Rabbit Anti-Aquaporin-3 Polyclonal Antibody (NBP1-97927). Primary Antibody: Rabbit Anti-Aquaporin-3 Polyclonal Antibody (NBP1-97927) at 1:2000.



Immunohistochemistry: Aquaporin-3 Antibody [NBP1-97927] - Immunohistochemistry analysis using Rabbit Anti-Aquaporin-3 Polyclonal Antibody (NBP1-97927). Tissue: kidney tissue. Species: Rat. Fixation: 4% paraformaldehyde-lysine-periodate. Primary Antibody: Rabbit Anti-Aquaporin-3 Polyclonal Antibody (NBP1-97927) at 1:200 for 75 min at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) for 1 hour at RT. 4 m cryostat sections.



Publications

de Boer, LL; Vanes, L; Melgrati, S; Biggs O'May, J; Hayward, D; Driscoll, PC; Day, J; Griffiths, A; Magueta, R; Morrell, A; MacRae, JI; Köchl, R; Tybulewicz, VLJ; T cell migration requires ion and water influx to regulate actin polymerization Nature communications 2023-12-06 [PMID: 38057317]

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Bollag WB, Aitkens L, White J, Hyndman KA Aquaporin-3 in the Epidermis: More than Skin Deep Am. J. Physiol., Cell Physiol. 2020-04-08 [PMID: 32267715] (IF/IHC)

Gonen T, Walz T. The structure of aquaporins. Q Rev Biophys. 2006-11-01 [PMID: 17156589]

Dibas AI, Mia AJ, Yorio T et al. Aquaporins (water channels): role in vasopressin-activated water transport. Proc Soc Exp Biol Med. 1998-12-01 [PMID: 9824541]

Knepper MA. The aquaporin family of molecular water channels. Proc Natl Acad Sci U S A. 1994-07-01 [PMID: 7517546]

Sasaki S, Ishibashi K, Marumo F et al. Aquaporin-2 and -3: representatives of two subgroups of the aquaporin family colocalized in the kidney collecting duct. Annu Rev Physiol. 1998-01-01 [PMID: 9558461]



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Products Related to NBP1-97927

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-33872PEP	Aquaporin-3 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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