

# Product Datasheet

## Aquaporin 1/AQP1 Antibody - BSA Free NBP1-84488

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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**NBP1-84488**

Aquaporin 1/AQP1 Antibody - BSA Free

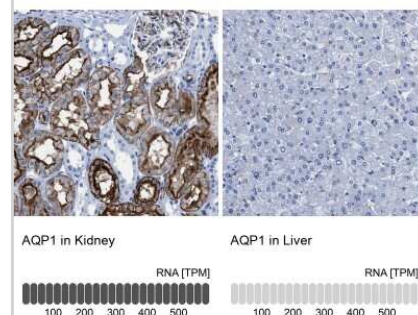
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	358
Gene Symbol	AQP1
Species	Human, Mouse, Feline
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30322799). Feline reactivity reported from a verified customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: PRSSDLTDRVKVWTSGQVEEYDL DADDINSRVEMKPK

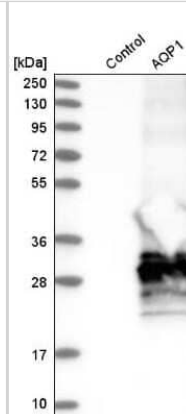
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000-1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

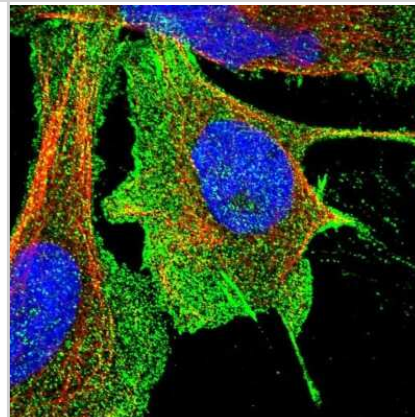
Immunohistochemistry-Paraffin: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Analysis in human kidney and liver tissues. Corresponding AQP1 RNA-seq data are presented for the same tissues.



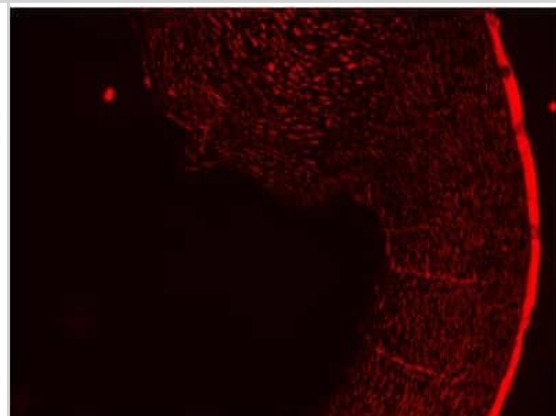
Western Blot: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Analysis in control (vector only transfected HEK293T lysate) and aQP1 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (3.1 kDa) in mammalian HEK293T cells).



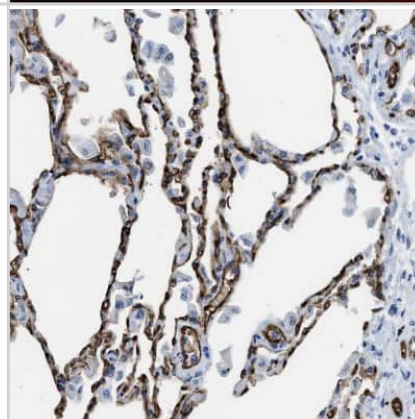
Immunocytochemistry/Immunofluorescence: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Staining of human cell line U-2 OS shows localization to plasma membrane. Antibody staining is shown in green.



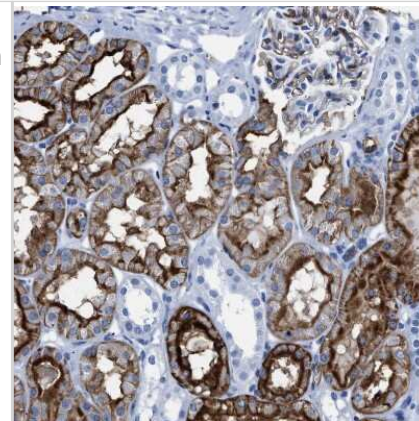
Immunohistochemistry-Paraffin: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Aquaporin 1/AQP1 used at 1:50 on a feline cornea tissue. Aquaporin 1/AQP1 antibody was used on feline paraffin-embedded cornea tissue at a concentration of 20ug/mL and left at 4C overnight. HIER was performed in Tris/EDTA buffer for two hours at 75C. Image from verified customer review.



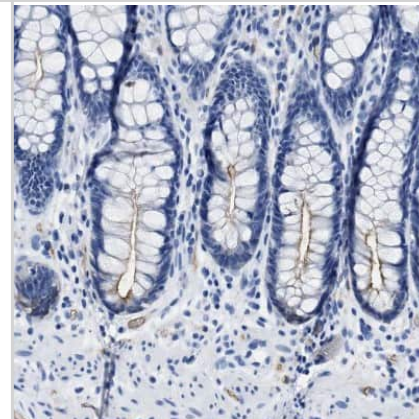
Immunohistochemistry-Paraffin: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Staining of human lung shows strong membranous positivity in endothelial cells.



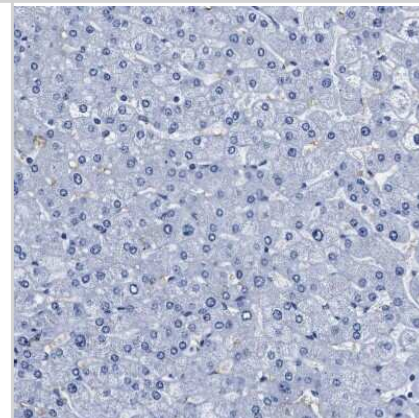
Immunohistochemistry-Paraffin: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Staining of human kidney shows moderate to strong positivity in apical membranes in cells in tubules.



Immunohistochemistry-Paraffin: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Staining of human rectum shows moderate positivity in apical membranes in glandular cells.



Immunohistochemistry-Paraffin: Aquaporin 1/AQP1 Antibody [NBP1-84488] - Staining of human liver shows no positivity in hepatocytes as expected.



## Publications

Bedos L, Wickham H, Gabriel V et al. Culture and characterization of canine and feline corneal epithelial organoids: A new tool for the study and treatment of corneal diseases *Frontiers in veterinary science* 2022-11-04 [PMID: 36406087]

Takiyama Yumi, Sera Toshihiro, Nakamura Masanori et al. Impacts of Diabetes and an SGLT2 Inhibitor on the Glomerular Number and Volume in db/db Mice, as Estimated by Synchrotron Radiation Micro-CT at SPring-8. *Communications Biology* 2018-10-01 [PMID: 30322799] (IF/IHC, Mouse)



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### **Products Related to NBP1-84488**

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NBP1-84488PEP	Aquaporin 1/AQP1 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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### **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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