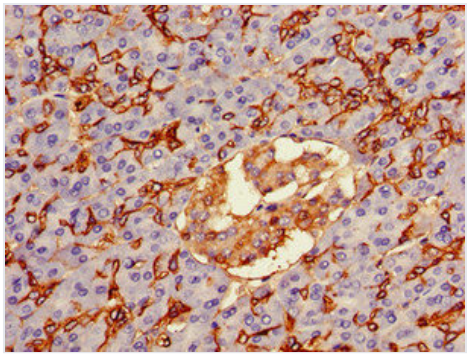
AQP1 Antibody – Rabbit Polyclonal

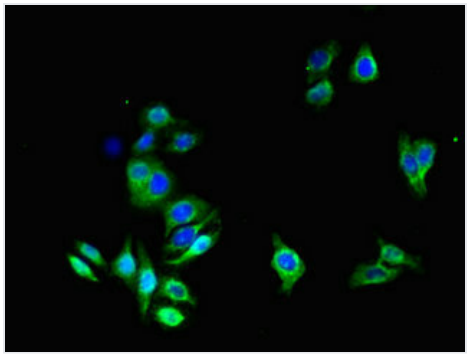
PRODUCT OVERVIEW

Product Name	AQP1, Polyclonal Antibody
Full Product Name	AQP1 Antibody
Product Gene Name	anti-AQP1 antibody
Product Synonym Names	Aquaporin-1; AQP-1; Aquaporin-CHIP; Urine water channel; Water channel protein for red blood cells and kidney proximal tubule; AQP1; CHIP28
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: AQP1 (MBS7049675) HRP Conjugated Antibody: AQP1 (MBS7049676)
Matching Pairs	Unconjugated Antibody: AQP1 (MBS7049675) FITC Conjugated Antibody: AQP1 (MBS7049677)
Matching Pairs	Unconjugated Antibody: AQP1 (MBS7049675) Biotin Conjugated Antibody: AQP1 (MBS7049678)
Molecular Weight	16,677 Da
OMIM	M77829 mRNA
3D Structure	ModBase 3D Structure for P29972
Immunogen	Recombinant Human Aquaporin-1 protein (2-269AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, PH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-20810 / sc-34008 / sc-34009 / sc-9878 / sc-9879
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AQP1 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-AQP1 antibody	IHC: 1: 20-1: 200 IF: 1: 50-1: 200
Related Product Information for anti-AQP1 antibody	Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.

Other Notes	Small volumes of anti-AQP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AQP1 purchase	MBS7049675 is an antibody targeting AQP1. Also known as AQP1 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-AQP1 antibody
Immunohistochemistry of paraffin-embedded human pancreatic tissue using MBS7049675 at dilution of 1:100



Immunofluorescence (IF) of anti-AQP1 antibody
Immunofluorescent analysis of HepG2 cells using MBS7049675 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AQP1. It may not necessarily be applicable to this product.

NCBI GI #	37694062
NCBI GeneID	358
NCBI Accession #	NP_932766.1
UniProt Primary Accession #	P29972
UniProt Secondary Accession #	Q8TBI5; Q8TDC1; B5BU39; E7EM69; E9PC21; F5GY19
UniProt Related Accession #	P29972
GenBank Nucleotide #	NM_198098.3
NCBI Official Full Name	aquaporin-1 isoform 1
NCBI Official Synonym Full Names	aquaporin 1 (Colton blood group)
NCBI Official Symbol	AQP1
NCBI Official Synonym Symbols	CO; CHIP28; AQP-CHIP
UniProt Protein Name	Aquaporin-1
UniProt Synonym Protein Names	Aquaporin-CHIP; Urine water channel; Water channel protein for red blood cells and kidney proximal tubule
UniProt Gene Name	AQP1
UniProt Synonym Gene Names	CHIP28; AQP-1
UniProt Entry Name	AQP1_HUMAN
NCBI Protein Information	aquaporin-1
NCBI Summary for AQP1	This gene encodes a small integral membrane protein with six bilayer spanning domains that functions as a water channel protein. This protein permits passive transport of water along an osmotic gradient. This gene is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq, Aug 2016]

UniProt Comments for AQP1	AQP1: Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Belongs to the MIP/aquaporin (TC 1.A.8) family. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Transporter; Transporter, aquaporin family Chromosomal Location of Human Ortholog: 7p14 Cellular Component: apical part of cell; apical plasma membrane; basal plasma membrane; basolateral plasma membrane; brush border; brush border membrane; cytoplasm; integral to plasma membrane; nuclear membrane; nucleus; plasma membrane; sarcolemma Molecular Function: ammonium transmembrane transporter activity; glycerol channel activity; glycerol transmembrane transporter activity; intracellular cGMP activated cation channel activity; nitric oxide transporter activity; potassium channel activity; potassium ion transmembrane transporter activity; protein binding; transmembrane transporter activity; water channel activity; water transporter activity Biological Process: ammonium transport; bicarbonate transport; carbon dioxide transport; cell volume homeostasis; cellular homeostasis; cellular response to stress; cellular water homeostasis; cerebrospinal fluid secretion; cGMP biosynthetic process; establishment and/or maintenance of actin cytoskeleton polarity; glycerol transport; lateral ventricle development; multicellular organismal water homeostasis; negative regulation of apoptosis; negative regulation of caspase activity; nitric oxide transport; odontogenesis; pancreatic juice secretion; positive regulation of angiogenesis; positive regulation of fibroblast proliferation; positive regulation of saliva secretion; potassium ion transport; renal water homeostasis; renal water transport; response to drug; water transport Disease: Blood Group--colton
Research Articles on AQP1	**1.** High cytoplasmic expression of AQP1 is associated with breast cancer progression.
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