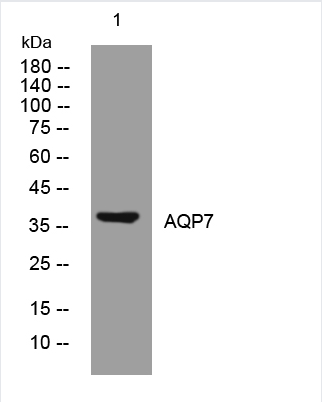
AQP7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AQP7, Polyclonal Antibody
Full Product Name	AQP7 Antibody
Product Gene Name	anti-AQP7 antibody
Product Synonym Names	AQP7
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of AQP7 at Human/Mouse/Rat
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	17,954 Da
OMIM	gene 614411
3D Structure	ModBase 3D Structure for O14520
Immunogen	Synthesized peptide derived from human AQP7 AA range: 136-186
Modification	Unmodified/Total
Product Categories/Family for anti-AQP7 antibody	Primary Antibodies
Applications Tested/Suitable for anti-AQP7 antibody	Western Blot (WB)
Application Notes for anti-AQP7 antibody	WB: 1:500-2000
Related Product Information for anti-AQP7 antibody	This gene encodes a member of the aquaporin family of water-selective membrane channels. The encoded protein localizes to the plasma membrane and allows movement of water, glycerol and urea across cell membranes. This gene is highly expressed in the adipose tissue where the encoded protein facilitates efflux of glycerol. In the proximal straight tubules of kidney, the encoded protein is localized to the apical membrane and prevents excretion of glycerol into urine. The encoded protein is present in spermatids, as well as in the testicular and epididymal spermatozoa suggesting an important role in late spermatogenesis. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. This gene is located adjacent to a related aquaporin gene on chromosome 9. Multiple pseudogenes of this gene have been identified. [provided by RefSeq, Dec 2015]
Other Notes	Small volumes of anti-AQP7 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 AQP7 purchase	MBS9519630 is an antibody targeting AQP7. Also known as AQP7 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-AQP7 antibody
Western blot analysis of lysates from MCF-7 cells, primary antibody was diluted at 1:1000, 4 degree over night

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AQP7. It may not necessarily be applicable to this product.

NCBI GI #	3121761
NCBI GeneID	364
NCBI Accession #	O14520.1
UniProt Primary Accession #	O14520
UniProt Secondary Accession #	Q08E94; Q5T5L9; Q8NHM3
UniProt Related Accession #	O14520
NCBI Official Full Name	Aquaporin-7
NCBI Official Synonym Full Names	aquaporin 7
NCBI Official Symbol	AQP7
NCBI Official Synonym Symbols	AQP9; AQP7L; AQPap; GLYCQTL
UniProt Protein Name	Aquaporin-7
UniProt Synonym Protein Names	Aquaglyceroporin-7; Aquaporin adipose; AQPap; Aquaporin-7-like
Protein Family	Aquaporin
UniProt Gene Name	AQP7
UniProt Synonym Gene Names	AQP7L; AQP9; AQP-7; AQPap
UniProt Entry Name	AQP7_HUMAN
NCBI Protein Information	aquaporin-7; AQP-7; aquaporin adipose; aquaglyceroporin-7
NCBI Summary for AQP7	Aquaporins/major intrinsic protein (MIP) are a family of water-selective membrane channels. Aquaporin 7 has greater sequence similarity with AQP3 and AQP9 and they may be a subfamily. Aquaporin 7 and AQP3 are at the same chromosomal location suggesting that 9p13 may be a site of an aquaporin cluster. Aquaporin 7 facilitates water, glycerol and urea transport. It may play an important role in sperm function. [provided by RefSeq, Jul 2008]

UniProt Comments for AQP7	AQP7: Forms a channel for water and glycerol. Belongs to the MIP/aquaporin (TC 1.A.8) family. Protein type: Membrane protein, multi-pass; Membrane protein, integral; Transporter; Transporter, aquaporin family Chromosomal Location of Human Ortholog: 9p13 Cellular Component: integral to plasma membrane; cytoplasm; plasma membrane; intercellular junction Molecular Function: urea transmembrane transporter activity; water channel activity; glycerol channel activity Biological Process: glycerol transport; generation of precursor metabolites and energy; cellular water homeostasis; water transport; excretion; transmembrane transport Disease: Glycerol Quantitative Trait Locus
Research Articles on AQP7	**1.** AQP7 overexpression may be related to insulin sensitivity and glucose homeostasis in women with the polycystic ovary syndrome.
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