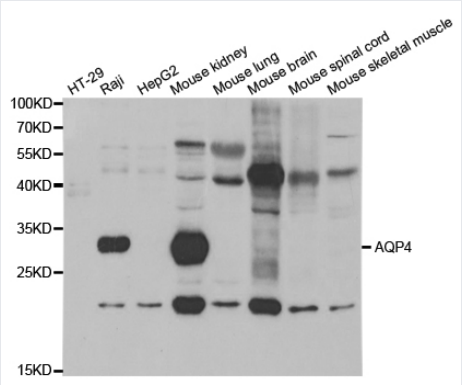
AQP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AQP4, Polyclonal Antibody
Full Product Name	AQP4 Antibody
Product Gene Name	anti-AQP4 antibody
Product Synonym Names	MIWC; HMIWC2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total AQP4 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	32,300 Da
OMIM	600308
3D Structure	ModBase 3D Structure for P55087
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human AQP4.
Target Name	AQP4
Product Categories/Family for anti-AQP4 antibody	Total protein Ab
Applications Tested/Suitable for anti-AQP4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-AQP4 antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200
Related Product Information for anti-AQP4 antibody	This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. The encoded protein is the predominant aquaporin found in brain. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
Other Notes	Small volumes of anti-AQP4 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 AQP4 purchase	MBS9405693 is an antibody targeting AQP4. Also known as AQP4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-AQP4 antibody
Western blot analysis of extracts of various cell lines, using AQP4 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AQP4. It may not necessarily be applicable to this product.

NCBI GI #	4502181
NCBI GeneID	361
NCBI Accession #	NP_001641.1
UniProt Primary Accession #	P55087
UniProt Secondary Accession #	P78564
UniProt Related Accession #	P55087
GenBank Nucleotide #	NM_001650.4
NCBI Official Full Name	aquaporin-4 isoform a
NCBI Official Synonym Full Names	aquaporin 4
NCBI Official Symbol	AQP4
NCBI Official Synonym Symbols	MIWC; HMIWC2
UniProt Protein Name	Aquaporin-4
UniProt Synonym Protein Names	Mercurial-insensitive water channel; MIWC; WCH4
Protein Family	Aquaporin
UniProt Gene Name	AQP4
UniProt Synonym Gene Names	AQP-4; MIWC
UniProt Entry Name	AQP4_HUMAN
NCBI Protein Information	aquaporin-4

UniProt Comments for AQP4	AQP4: a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. The predominant aquaporin found in brain. Two alternatively spliced transcript variants have been described Protein type: Membrane protein, multi-pass; Channel, misc.; Membrane protein, integral; Transporter; Transporter, aquaporin family Chromosomal Location of Human Ortholog: 18q11.2-q12.1 Cellular Component: protein complex; integral to plasma membrane; basolateral plasma membrane; cytoplasm; T-tubule; plasma membrane; intercellular junction; external side of plasma membrane Molecular Function: water transporter activity; water channel activity; porin activity; glycerol channel activity Biological Process: glycerol transport; response to radiation; cellular water homeostasis; sensory perception of sound; hyperosmotic salinity response; transport; carbon dioxide transport; water transport; response to glucocorticoid stimulus; renal water homeostasis; multicellular organismal water homeostasis; female pregnancy; transmembrane transport; protein homooligomerization
Research Articles on AQP4	**1.** This review focuses on the role of AQP4 in ischemic brain edema, and its prospect as a therapeutic target--{REVIEW}
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