

## Recombinant Human AQP4 protein, GST-tagged

Cat. No. AQP4-734H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human AQP4 full-length ORF (AAH22286.1, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal.

**Species** Human

**Source** Wheat Germ

**Description** 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. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2015]

**Molecular Mass** 61.2 kDa

**AA Sequence** MSDRPTARRWGKCGPLCTRENIMVAFKGVWTQAFWKAVTAEFLAMLIFVLLSLGSTI  
NWGGTEKPLPVDMLISLCFGLSIATMVQCFCGHISGGHINPAVTVAMVCTRKISIAKS  
VFYIAAQCLGAIIGAGILYLVTTPPSVVGGLGVTMVHGNLTAGHGLLVELIITFQLVFTIF  
ASCDKRTDVTGSIALAIGFSAIGHLFAINYTGASMNPARSFGPAVIMGNWENHWIY  
WVGPIIGAVLAGGLYEYVFCPDVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVET  
DDLILKPGVVHVIDVDRGEEKKGDQSGEVLSSV

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	AQP4 aquaporin 4 [ Homo sapiens ]
<b>Official Symbol</b>	AQP4
<b>Synonyms</b>	AQP4; aquaporin 4; aquaporin-4; MIWC; WCH4; aquaporin type4; mercurial-insensitive water channel; HMIWC2; MGC22454;
<b>Gene ID</b>	361
<b>mRNA Refseq</b>	NM_001650
<b>Protein Refseq</b>	NP_001641
<b>MIM</b>	600308
<b>UniProt ID</b>	P55087

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