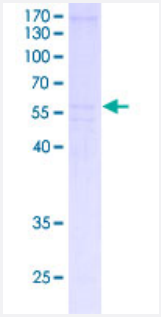
Full-Length

AQP4 (Human) Recombinant Protein (P01)

Catalog # H00000361-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AQP4 full-length ORF (AAH22286.1, 1 a.a. - 323 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	MSDRPTARRWGKCGPLCTRENIMVAFKGVWTQAFWKAVTAEFLAMLIFVLLSLGSTINWGGTEK PLPVDMVLISLCFGLSIATMVQCFGHISGGHINPAVTVAMVCTRKISIAKSVFYIAAQCLGAIIGAGILY LVTPPSVVGGLGVTMVHGNLTAGHGLLVELIITFQLVFTIFASCDSKRTDVTGSIALAIGFSVAIGHLF AINYTGASMNPARSFGPAVIMGNWENHWIYWVGPIIGAVLAGGLYEYVFCPDVEFKRRFKEAFSKA AQQTKGSYMEVEDNRSQVETDDLILKPGVVHVIDVDRGEEKKGKDQSGEVLSSV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	61.2
Interspecies Antigen Sequence	Mouse (93); Rat (94)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AQP4

Entrez GeneID	361
GeneBank Accession#	BC022286.1
Protein Accession#	AAH22286.1
Gene Name	AQP4
Gene Alias	HMIWC2, MGC22454, MIWC
Gene Description	aquaporin 4
Omim ID	600308
Gene Ontology	Hyperlink
Gene Summary	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 distin ct isoforms have been found for this gene. [provided by RefSeq
Other Designations	aquaporin type4|aquaporin-4|mercurial-insensitive water channel

Publication Reference

- Anti-aquaporin-4 immune complex stimulates complement-dependent Th17 cytokine release in neuromyelitis optica spectrum disorders.

  Shuhei Nishiyama, Jin Myong Seok, Amy E Wright, Itay Lotan, Takahisa Mikami, Natalia C Drosu, Natasha Bobrowski-Khoury, Monique R Anderson, Philippe A Bilodeau, Patrick Schindler, Friedemann Paul, Masashi Aoki, Michael R Yeaman, Michael Levy.

  Scientific Reports 2024 Feb; 14(1):3146.

  Application : Flow Cyt, Human serum, Peripheral blood mononuclear cells

Disease

- Atherosclerosis
- Brain Edema
- Brain Injuries
- Epilepsy
- Genetic Predisposition to Disease
- Infarction
- Migraine Disorders
- Schizophrenia
- Sclerosis
- Sudden Infant Death