

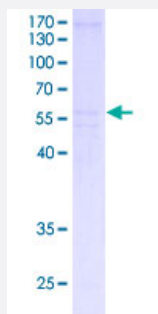
Full-Length

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
PLPVDMLISLCFGLSIATMVQCFGHISGGHINPAVTAMVCTRKISIAKSVFYAAQCLGAIIGAGILY
LVTPPSVVGG LGVTMVHGNTAGHG LLLVELITFQLVFTIFASCD SKRTDVTGSIALAIGFSVAIGHLF
AINYTGASMNPARSFGPAVIMGNWENHWYVWGPIIGAVLAGGLYEYVFCPDVEFKRRFKEAFSKA
AQQTGGSYMEVEDNRSQVETDDLILKPGVVHVIDVDRGEEKKGKDQSGEVLSSV

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 distinct 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](#)