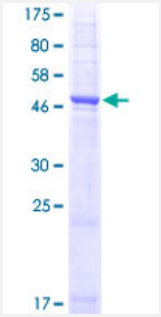
Full-Length

AQP1 (Human) Recombinant Protein (P01)

Catalog # H00000358-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AQP1 full-length ORF (AAH22486, 1 a.a. - 269 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MASEFKKKLFWRAVVAEFLATTLFVFISIGSALGFKYPVGNNQTAVQDNVKVSLAFGLSIATLAQS VGHISGAHLNPAVTLGLLLSCQISIFRALMYIIAQCVGAIVATAILSGITSSLTGNSLGRNDLADGVNSG QGLGIEIIGTLQLVLCVLATTDRRRRDLGGSAPLAIGLSVALGHLLAIDYTGCGINPARSFGSAVITHN FSNHWIFWVGPFIGGALAVLIYDFILAPRSSDLTDRVKVWTSGQVEEYDLDADDINSRVEMKPK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	55.33
Interspecies Antigen Sequence	Mouse (94); Rat (93)
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 — AQP1

Entrez GeneID	358
GeneBank Accession#	BC022486
Protein Accession#	AAH22486
Gene Name	AQP1
Gene Alias	AQP-CHIP, CHIP28, CO, MGC26324
Gene Description	aquaporin 1 (Colton blood group)
Omim ID	107776 110450
Gene Ontology	Hyperlink
Gene Summary	Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). This gene encodes an aquaporin which functions as a molecular water channel pr otein. It is a homotetramer with 6 bilayer spanning domains and N-glycosylation sites. The protein physically resembles channel proteins and is abundant in erythrocytes and renal tubes. The gene encoding this aquaporin is a possible candidate for disorders involving imbalance in ocular fluid movement. [provided by RefSeq
Other Designations	Colton blood group|aquaporin 1|aquaporin 1 (channel-forming integral protein, 28kDa, CO blood group)|channel-like integral membrane protein, 28-kDa

Publication Reference

- Aquaporin homologs and water transport in the anal papillae of the larval mosquito, Aedes aegypti.

  Marusalin J, Matier BJ, Rheault MR, Donini A.

  Journal of Comparative Physiology. B, Biochemical, Systemic, and Environmental Physiology 2012 Dec; 182(8):1047.

  Application: WB-Re, Recombinant protein

Disease

- Anemia
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Glaucoma
- Hyperparathyroidism
- Priapism
- Thalassemia