

Recombinant Rat Aqp1 Protein, His&GST-tagged

Cat. No. Aqp1-233R **Lot. No.** (See product label)

SPECIFICATION

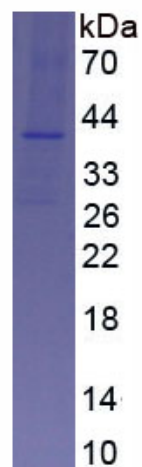
Product Overview	Recombinant Rat Aqp1 Protein (Ile184-Lys269) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ile184-Lys269
Description	Enables glycerol transmembrane transporter activity and water channel activity. Involved in several processes, including glycerol transport; lateral ventricle development; and positive regulation of lamellipodium assembly. Located in several cellular components, including basolateral plasma membrane; brush border; and neuronal cell body membrane. Biomarker of artery disease (multiple); autosomal recessive polycystic kidney disease; brain disease (multiple); diabetes mellitus; and uveitis. Orthologous to human AQP1 (aquaporin 1 (Colton blood group)).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.7 kDa Accurate Molecular Mass: 42 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.
GENE INFORMATION	
Gene Name	Aqp1 aquaporin 1 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Aqp1
Synonyms	AQP1; aquaporin 1; aquaporin-1; AQP-1; aquaporin-CHIP; Aquaporin 1 (aquaporin channel forming integral protein 28 (CHIP)); water channel protein for red blood cells and kidney proximal tubule; CHIP28
Gene ID	25240
mRNA Refseq	NM_012778
Protein Refseq	NP_036910
UniProt ID	P29975



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