

Product datasheet

Recombinant Human Aquaporin 4 protein (Tagged) ab225651

[1 Image](#)

Description

| | |
|--|---|
| Product name | Recombinant Human Aquaporin 4 protein (Tagged) |
| Purity | > 90 % SDS-PAGE. |
| Expression system | Escherichia coli |
| Accession | <u>P55087</u> |
| Protein length | Protein fragment |
| Animal free | No |
| Nature | Recombinant |
| Species | Human |
| Sequence | CPDVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVETD DLILKPGVVHVIDVDRGEEKKGKDQSGEVLSSV |
| Predicted molecular weight | 24 kDa including tags |
| Amino acids | 253 to 323 |
| Tags | His tag N-Terminus |
| Additional sequence information | 6xHis-SUMO tag at the N-terminus. |

Specifications

Our **Abpromise guarantee** covers the use of **ab225651** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications SDS-PAGE

Form Liquid

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
pH: 7.2
Constituents: 50% Glycerol (glycerin, glycerine), Tris buffer

General Info

| | |
|---|---|
| Function | Forms a water-specific channel. Osmoreceptor which regulates body water balance and mediates water flow within the central nervous system. |
| Tissue specificity | Brain - muscle >> heart, kidney, lung, and trachea. |
| Sequence similarities | Belongs to the MIP/aquaporin (TC 1.A.8) family. |
| Domain | Aquaporins contain two tandem repeats each containing three membrane-spanning domains and a pore-forming loop with the signature motif Asn-Pro-Ala (NPA). |
| Post-translational modifications | Phosphorylation by PKC at Ser-180 reduces conductance by 50%. Phosphorylation by PKG at Ser-111 in response to glutamate increases conductance by 40%. |
| Cellular localization | Membrane. |

Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis of ab225651 with 5% enrichment gel and 15% separation gel.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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