abcam

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 P55087

Protein length Protein fragment

Animal free No

Nature Recombinant

Species Human

Sequence CPDVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVETD

DLILKPGVVHVI DVDRGEEKKGKDQSGEVLSSV

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 <u>Abpromise guarantee</u> 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

1

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 similaritiesBelongs to the MIP/aquaporin (TC 1.A.8) family.

Domain Aquaporins contain two tandem repeats each containing three membrane-spanning domains and

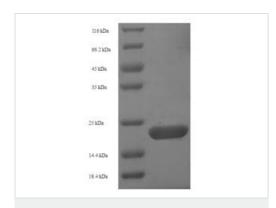
a pore-forming loop with the signature motif Asn-Pro-Ala (NPA).

Post-translational Phosphorylation by PKC at Ser-180 reduces conductance by 50%. Phosphorylation by PKG at

modifications Ser-111 in response to glutamats increases conductance by 40%.

Cellular localization Membrane.

Images



SDS-PAGE - Recombinant Human Aquaporin 4 protein (Tagged) (ab225651)

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

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