

Product datasheet

Recombinant Human Occludin protein ab114189

1 References 1 Image

Description

Product name	Recombinant Human Occludin protein
Expression system	Wheat germ
Accession	Q16625
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<p>MSSRPLESPPPYRPFDEFKPNHYAPSNDIYGGEMHVRPML SQPAYSFYPED EILHFYKWTSPPGVIRILSMLIVMCIAIFACVASTLAWDRGY GTSLLGG SVGYPYGGSGFGSYGSGYGYGYGYGGYTDPRAAKG FMLAMAAFCFI AALVIFVTSVIRSEMSRTRRYLSVIIVSAILGIMVFIATMYIMG VNPT AQSSGSLYGSQIYALCNQFYTPAATGLYVDQYSYHYCVVD PQEAIAMLG FMIVAFALIIFFAVKTRRKMDRYDKSNILWDKEHIYDEQPPN VEEWKN VSAGTQDVPSPSDYVERVDSPMAYSSNGKVNDKRFYP ESSYKSTPVPEV VQELPLTSPVDDFRQPRYSSGGNFETPSKRAPAKGRAGR SKRTEQDHYET DYTTGGESCDLEEDWIREYPPITSDQQRQLYKRNFDTGL QEYKSLQSEL DEINKELSRLDKELDDYREESEEYMAAADEYNRLKQVKG SADYKSKKNHC KQLKSKLSHIKKMVGDYDRQKT</p>
Predicted molecular weight	84 kDa including tags
Amino acids	1 to 522
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab114189** 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 Western blot ELISA
Form	Liquid

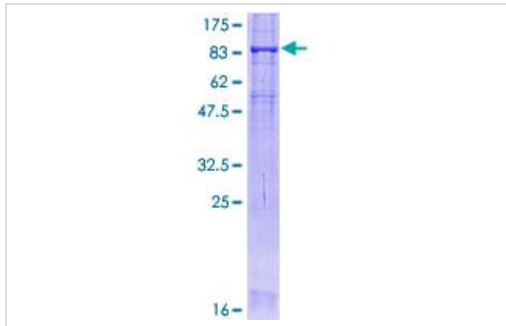
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
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General Info

Function	May play a role in the formation and regulation of the tight junction (TJ) paracellular permeability barrier. It is able to induce adhesion when expressed in cells lacking tight junctions.
Tissue specificity	Localized at tight junctions of both epithelial and endothelial cells. Highly expressed in kidney. Not detected in testis.
Involvement in disease	Defects in OCLN are the cause of band-like calcification with simplified gyration and polymicrogyria (BLCPMG) [MIM:251290]; also known as pseudo-TORCH syndrome. BLCPMG is a neurologic disorder with characteristic clinical and neuroradiologic features that mimic intrauterine TORCH infection in the absence of evidence of infection. Affected individuals have congenital microcephaly, intracranial calcifications, and severe developmental delay.
Sequence similarities	Belongs to the ELL/occludin family. Contains 1 MARVEL domain.
Domain	The C-terminal is cytoplasmic and is important for interaction with ZO-1. Sufficient for the tight junction localization. Involved in the regulation of the permeability barrier function of the tight junction (By similarity). The first extracellular loop participates in an adhesive interaction.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR. Dephosphorylated by PTPRJ. The tyrosine phosphorylation on Tyr-398 and Tyr-402 reduces its ability to interact with TJP1.
Cellular localization	Membrane. Cell junction > tight junction.

Images



ab114189 analysed on a 12.5% SDS-PAGE gel stained with Coomassie Blue.

SDS-PAGE - Recombinant Human Occludin protein (ab114189)

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