abcam

Product datasheet

Recombinant Human Claudin 1 protein ab152949

1 Image

Description

Product name	Recombinant Human Claudin 1 protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MANAGLQLLGFILAFLGWIGAIVSTALPQWRIYSYAGDNIVT AQAMYEGL WMSCVSQSTGQIQCKVFDSLLNLSSTLQATRALMVVGILL GVIAIFVATV GMKCMKCLEDDEVQKMRMAVIGGAIFLLAGLAILVATAWY GNRIVQEFYD PMTPVNARYEFGQALFTGWAAASLCLLGGALLCCSCPRK TTSYPTPRPYP KPAPSSGKDYV
Amino acids	1 to 211
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab152949** in the following tested applications.

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

Applications	ELISA Western blot
Form	Liquid
Additional notes	

Preparation and Storage

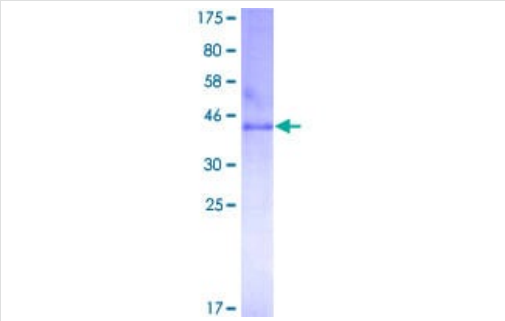
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members play essential roles in the formation of impermeable barriers, others mediate the permeability to ions and small molecules. Often, several claudin family members are coexpressed and interact with each other, and this determines the overall permeability. CLDN1 is required to prevent the paracellular diffusion of small molecules through tight junctions in the epidermis and is required for the normal barrier function of the skin. Required for normal water homeostasis and to prevent excessive water loss through the skin, probably via an indirect effect on the expression levels of other proteins, since CLDN1 itself seems to be dispensable for water barrier formation in keratinocyte tight junctions (PubMed:23407391). (Microbial infection) Acts as a receptor for hepatitis C virus in hepatocytes (PubMed:17325668). Acts as a receptor for dengue virus (PubMed:24074594).
Tissue specificity	Strongly expressed in liver and kidney. Expressed in heart, brain, spleen, lung and testis.
Involvement in disease	Ichthyosis-sclerosing cholangitis neonatal syndrome
Sequence similarities	Belongs to the claudin family.
Cellular localization	Cell junction, tight junction. Cell membrane.

Images



SDS-PAGE - Recombinant Human Claudin 1 protein (ab152949)

ab152949 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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

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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish

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