Datasheet for ABIN7562625

Claudin 1 Protein (CLDN1) (AA 1-211) (His tag)

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Overview

Quantity:	1 mg
Target:	Claudin 1 (CLDN1)
Protein Characteristics:	AA 1-211
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Claudin 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cldn1 Protein expressed in mammalien cells.
Sequence:	MANAGLQLLG FILASLGWIG SIVSTALPQW KIYSYAGDNI VTAQAIYEGL WMSCVSQSTG QIQCKVFDSL LNLNSTLQAT RALMVIGILL GLIAIFVSTI GMKCMRCLED DEVQKMWMAV IGGIIFLISG LATLVATAWY GNRIVQEFYD PLTPINARYE FGQALFTGWA AASLCLLGGV LLSCSCPRKT TSYPTPRPYP KPTPSSGKDY V **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and

Product Details

	transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Claudin 1 (CLDN1)
Alternative Name:	Cldn1 (CLDN1 Products)
Background:	Claudin-1,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. {ECO:0000269|PubMed:10508613, ECO:0000269|PubMed:11889141, ECO:0000269|PubMed:23407391}.
Molecular Weight:	22.9 kDa
UniProt:	O88551
Pathways:	Cell-Cell Junction Organization, Hepatitis C

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

