Datasheet for ABIN7505011

Claudin 1 Protein (CLDN1) (AA 29-115) (His tag)

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Overview

Quantity:	100 µg
Target:	Claudin 1 (CLDN1)
Protein Characteristics:	AA 29-115
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Claudin 1 protein is labelled with His tag.

Product Details

Sequence:	Gln29-Lys115
Characteristics:	A DNA sequence encoding theHuman CLDN1 protein (O95832) (Gln29-Lys115) was expressed with a N-His.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	Claudin 1 (CLDN1)
Alternative Name:	CLDN1 (CLDN1 Products)
Background:	Abbreviation: CLDN1 Target Synonym: Senescence-associated epithelial membrane protein Background: Claudins function as major constituents of the tight junction complexes that regulate the permeability of epithelia. While some claudin family members play essential roles

Target Details

	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.
Molecular Weight:	Calculated MW: 9.6 kDa Observed MW: 14 kDa
UniProt:	O95832
Pathways:	Cell-Cell Junction Organization, Hepatitis C

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months