

Datasheet for ABIN7556497

Claudin 18 Protein (CLDN18) (AA 1-264) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Claudin 18 (CLDN18)
Protein Characteristics:	AA 1-264
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Claudin 18 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Cldn18 Protein expressed in mammalian cells.
Sequence:	MATTTTCQVVG LLLSLLGLAG CIAATGMDMW STQDLYDNPV TAVFQYEWLW RSCVQQSSGF TECRPYFTIL GLPAMLQAVR ALMIVGIVLG VIGILVSIFA LKCIRIGSMD DSAKAKMTLT SGILFIISGI CAIIGVSVFA NMLVTNFWMS TANMYSGMGG MGGMVQTVQT RYTFGAALFV GWVAGGLTLI GGVMMCIACR GLTPDDSNFK AVSYHASGQN VAYRPGGFKA STGFGSNTRN KKIYDGGART EDDEQSHPTK YDYV 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: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian 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 18 (CLDN18)

Alternative Name: Cldn18 ([CLDN18 Products](#))

Background: Claudin-18,FUNCTION: Involved in alveolar fluid homeostasis via regulation of alveolar epithelial tight junction composition and therefore ion transport and solute permeability, potentially via downstream regulation of the actin cytoskeleton organization and beta-2-adrenergic signaling (PubMed:24588076). Required for lung alveolarization and maintenance of the paracellular alveolar epithelial barrier (PubMed:24787463). Acts to maintain epithelial progenitor cell proliferation and organ size, via regulation of YAP1 localization away from the nucleus and thereby restriction of YAP1 target gene transcription (PubMed:29400695). Acts as a negative regulator of RANKL-induced osteoclast differentiation, potentially via relocation of TJP2/ZO-2 away from the nucleus, subsequently involved in bone resorption in response to calcium deficiency (PubMed:22437732). Mediates the osteoprotective effects of estrogen, potentially via acting downstream of estrogen signaling independently of RANKL signaling pathways (PubMed:23299504). {ECO:0000269|PubMed:22437732, ECO:0000269|PubMed:23299504, ECO:0000269|PubMed:24588076, ECO:0000269|PubMed:24787463, ECO:0000269|PubMed:29400695}., FUNCTION: [Isoform A1.1]: Involved in the maintenance of homeostasis of the alveolar microenvironment via regulation of pH and subsequent T-cell activation in the alveolar space, is therefore indirectly involved in limiting C. neoformans infection. {ECO:0000269|PubMed:34702961}., FUNCTION: [Isoform A2.1]: Required for the

Target Details

formation of the gastric paracellular barrier via its role in tight junction formation, thereby involved in the response to gastric acidification. {ECO:0000269|PubMed:22079592}.

Molecular Weight: 28.1 kDa

UniProt: [P56857](#)

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