

Datasheet for ABIN3023187
anti-Claudin 1 antibody (AA 1-211)



[Go to Product page](#)

3 Images

1 Publication

Overview

Quantity:	100 µL
Target:	Claudin 1 (CLDN1)
Binding Specificity:	AA 1-211
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Claudin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-211 of human Claudin 1 (NP_066924.1).
Sequence:	MANAGLQLLG FILAFLGWIG AIVSTALPQW RIYSYAGDNI VTAQAMYEGL WMSCVSQSTG QIQCKVFDSL LNLSSTLQAT RALMVGILL GVIAIFVATV GMKCMKCLED DEVQKMRMAV IGGAIFLLAG LAILVATAWY GNRIVQEFYD PMTPVNARYE FGQALFTGWA AASLCLLGGA LLCCSCPRKT TSYPTPRPYP KPAPSSGKDY V
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Claudin 1 (CLDN1)
Alternative Name:	CLDN1 (CLDN1 Products)
Background:	<p>Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome.,CLDN1,CLD1,ILVASC,SEMP1,claudin-1,Claudin 1,Signal Transduction,Cell Biology & Developmental Biology,Cell Adhesion,Tight Junctions,Cytoskeleton,CLDN1</p>
Molecular Weight:	22 kDa
Gene ID:	9076
UniProt:	O95832
Pathways:	Cell-Cell Junction Organization , Hepatitis C

Application Details

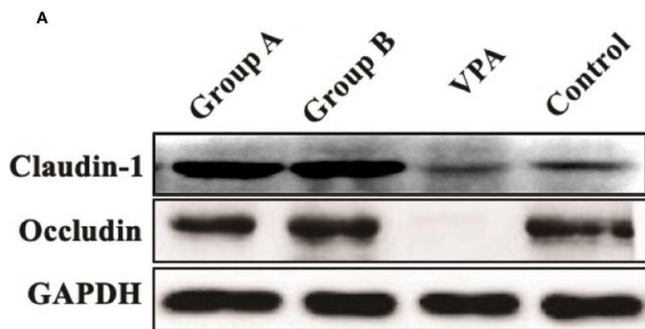
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

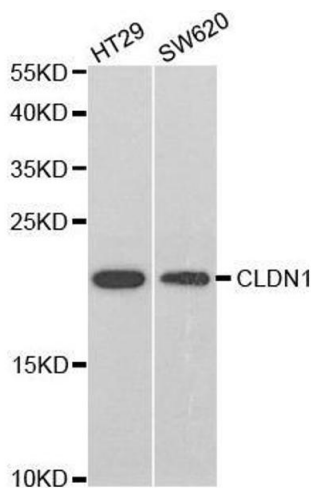
Product cited in: Knowlton, Fernández de Castro, Ashbrook, Gestaut, Zamora, Bauer, Forrest, Frydman, Risco, Dermody: "The TRiC chaperonin controls reovirus replication through outer-capsid folding." in: **Nature microbiology**, Vol. 3, Issue 4, pp. 481-493, (2018) ([PubMed](#)).

Images



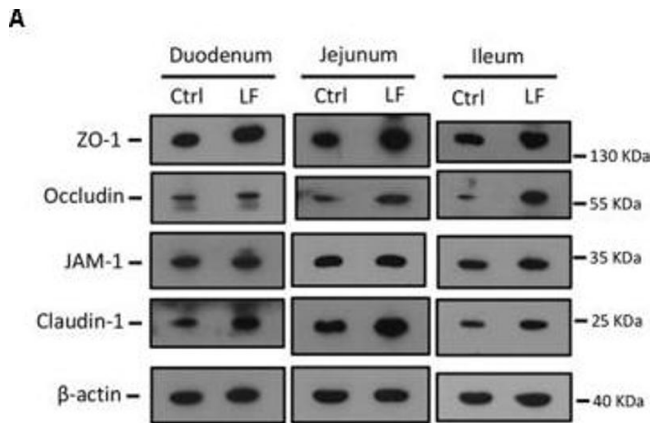
Western Blotting

Image 1. Expression of claudin-1 and occludin in the colonic tissues of different groups. Downregulated expression of occludin after VPA treatment. Upregulated expression of claudin-1 and occludin after dietary n3/n6 (1:5) supplementation. (A) Representative Western blot images of the protein bands. (B) Fold change of Claudin-1. (C) Fold change of occludin. Results are presented as mean \pm SEM. Differences were analyzed using one-way ANOVA followed by LSD test. $n = 3$ in each group. $**P < 0.01$, compared with VPA group. - figure provided by CiteAb. Source: PMID33033482



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using CLDN1 antibody.



Western Blotting

Image 3. The effects of *L. frumenti* on the intestinal epithelial physical barrier functions in early-weaned piglets. (A,B) Western blotting measurements of the expression levels of tight junction proteins (including ZO-1, Occludin, JAM-1, and Claudin-1) and a housekeeping protein (β -actin) in the small intestinal tissues (including duodenum, jejunum, and ileum) from early-weaned piglets (A). Normalization and quantitation of ZO-1/ β -actin, Occludin/ β -actin, JAM-1/ β -actin, and Claudin-1/ β -actin as prepared described in (B). Data are shown as mean \pm SEM for at least three different experiments (ns, not significant, $p > 0.05$, $p < 0.05$, $p < 0.01$) (Ctrl, Control, LF, *L. frumenti*). (C-E) Immunohistochemistry analysis of tight junction proteins [including Claudin-1 (C), Occludin (D), and ZO-1 (E)] in the small intestinal tissues (including duodenum, jejunum, and ileum) from early-weaned piglets. The images of intestinal morphology at 100x magnification and 200x magnification were shown, respectively. - figure provided by CiteAb.