

Cldn7 Antibody / Claudin 7 (RQ6167)

Catalog No.	Formulation	Size
RQ6167	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.0125% sodium azide
UniProt	Q9Z261
Applications	Western Blot : 1-2ug/ml
Limitations	This Cldn7 antibody is available for research use only.



Western blot testing of mouse small intestine lysate with Cldn7 antibody. Predicted molecular weight ~22 kDa.

Description

Claudin-7 is a protein that in humans is encoded by the CLDN7 gene. This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. This gene is expressed constitutively in the mammary epithelium throughout development, and might be involved in vesicle trafficking to the basolateral membrane. It is essential for NaCl homeostasis in distal nephrons. The knockout mice lacking this gene showed severe salt wasting, chronic dehydration, and growth retardation, and died within 12 days after birth. Alternatively spliced transcript variants have been found for this gene.

Application Notes

Optimal dilution of the Cldn7 antibody should be determined by the researcher.

Immunogen

Amino acids SESKAAYRAPRSYPKSNSSKEYV from the mouse protein were used as the immunogen for the Cldn7 antibody.

Storage

After reconstitution, the Cldn7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.