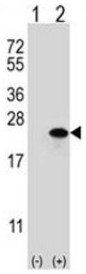
Claudin 1 Antibody (F49579)

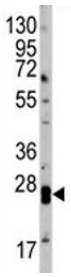
Catalog No.	Formulation	Size
F49579-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F49579-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Bovine, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O95832
Applications	Western Blot : 1:1000
Limitations	This Claudin 1 antibody is available for research use only.



Western blot analysis of Claudin 1 antibody and 293 cell lysate either nontransfected (Lane 1) or transiently transfected (2) with the CLDN1 gene.



Western blot analysis of Claudin 1 antibody and mouse kidney tissue lysate

Description

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. CLDN1 acts as a coreceptor for HCV entry into hepatic cells. [UniProt]

Application Notes

Titration of the Claudin 1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 122-163 from the human protein (loop 2) was used as the immunogen for this Claudin 1 antibody.

Storage

Aliquot the Claudin 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.