10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Rabbit Anti-Claudin 1 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52052

Specification

Rabbit Anti-Claudin 1 Polyclonal Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	O88551
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**22881**

Rabbit Anti-Claudin 1 Polyclonal Antibody - Additional Information

Gene ID 12737

Other Names
AI596271; Claudin-1; Cldn1

Dilution
WB~~1:100~1:500<br \>IHC-P~~1:100~1:500

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Rabbit Anti-Claudin 1 Polyclonal Antibody - Protein Information

Name Cldn1

Function
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.

Cellular Location
Cell junction, tight junction. Cell membrane; Multi-pass membrane protein. Basolateral cell

membrane {ECO:0000250|UniProtKB:O95832}. Note=Associates with CD81 and the CLDN1-CD81 complex localizes to the basolateral cell membrane {ECO:0000250|UniProtKB:O95832}

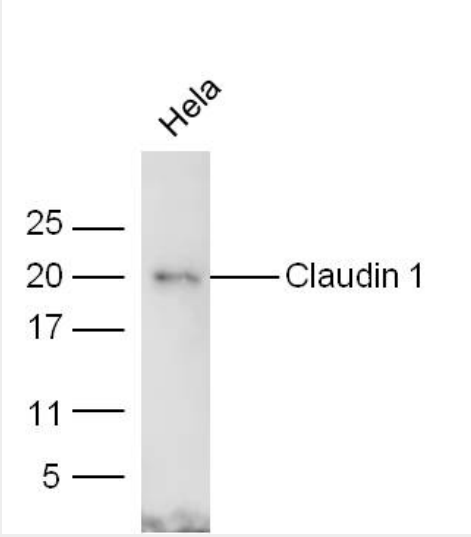
Tissue Location
Detected in epidermis and liver (at protein level). Widely expressed, with highest levels in liver and kidney

Rabbit Anti-Claudin 1 Polyclonal Antibody - Protocols

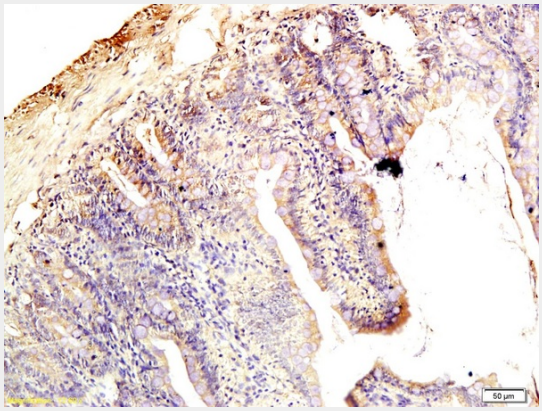
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rabbit Anti-Claudin 1 Polyclonal Antibody - Images



HeLa lysates probed with Rabbit Anti-Claudin 1 Polyclonal Antibody (AP52052) at 1:300 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:5000 for 90 min at 37˚C.



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Formalin-fixed and paraffin embedded rat intestine tissue labeled with Anti-Claudin 1 Polyclonal Antibody, Unconjugated (AP52052) followed by conjugation to the secondary antibody and DAB staining

Rabbit Anti-Claudin 1 Polyclonal Antibody - 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 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.