

Product Name: Claudin 1 (5F6) Rabbit Monoclonal Antibody
Catalog #: AMRe08890



Summary

Production Name	Claudin 1 (5F6) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB,IHC-P,ICC/IF,FC,IP,IF-P
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% protective protein.
Purification	Affinity purification

Immunogen

Gene Name	CLDN1
Alternative Names	Claudin1; CLD1I;CLDN 1; ILVASC; SEMP1;
Gene ID	9076.0
SwissProt ID	O95832. A synthetic peptide of human Claudin 1

Application

Dilution Ratio	WB 1:1000, IHC-P/IF-P 1:200, ICC/IF 1:500-1:1000, FCM 1:50, IP 1:50
Molecular Weight	23kDa

Background

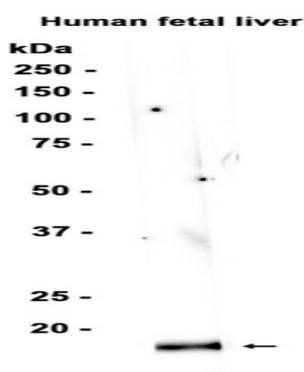
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The claudin family is composed of 23 integral membrane proteins, and their expression, which varies among tissue types, may determine both the strength and properties of the epithelial barrier. Alteration in claudin protein expression pattern is associated with several types of cancer. Claudin-1 is expressed primarily in keratinocytes and normal mammary epithelial cells, but is absent or reduced in breast carcinomas and breast cancer cell lines. 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 (PubMed: [23407391](http://www.uniprot.org/citations/23407391)).

Research Area

Image Data



Western blot analysis of extracts from Human fetal liver tissue using RM5272 at 1:1000.

Note

For research use only.