**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 |
| **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% BSA. |
| **Purification** | Affinity purification |

## Immunogen

| | |
|---|---|
| **Gene Name** | CLDN1 |
| **Alternative Names** | Claudin1; CLD1l;CLDN 1; ILVASC; SEMP1; |
| **Gene ID** | 9076.0 |
| **SwissProt ID** | O95832.A synthetic peptide of human Claudin 1 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB: 1:1000 |
| **Molecular Weight** | 23kDa |

## Background

**Product Name: Claudin 1 (5F6) Rabbit Monoclonal Antibody**
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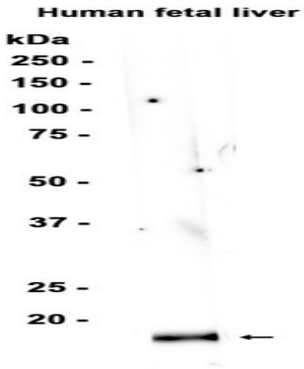
The claudin family is composed of 23 integral membrane proteins, and their expression, which varies among tissue types, may determine both the strength and properties of the epithelial barrier. Alteration in claudin protein expression pattern is associated with several types of cancer. Claudin-1 is expressed 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:<a href="http://www.uniprot.org/citations/23407391" target="_blank">23407391</a>).

## Research Area

## Image Data




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

## Note

For research use only.