

## Mouse Anti-CLDN1 antibody

SLM-52037M

<b>Product Name</b>	CLDN1
<b>Chinese Name</b>	紧密连接蛋白 1 抗体
<b>Alias</b>	CLD1_HUMAN; Claudin-1; Claudin 1; Claudin1; CLD1; SEMP1; Senescence-associated epithelial membrane protein; UNQ481/PRO944; ILVASC;
<b>Research Area</b>	Tumour immunology
<b>Immunogen Species</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone NO.</b>	8G1
<b>React Species</b>	Human,Mouse,Rat
<b>Applications</b>	IHC-P=1:50-200,IHC-F=1:50-200,IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	23kDa
<b>Cellular localization</b>	The cell membrane
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human CLDN1
<b>Lsotype</b>	IgG1
<b>Purification</b>	affinity purified by Protein G
<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a>
<b>Product Detail</b>	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial

cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008]

**Function:**

Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

**Subunit:**

Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN2, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3. Interacts with MPDZ and INADL.

**Subcellular Location:**

Cell junction, tight junction. Cell membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Widely expressed, with highest levels in liver and kidney.

**Similarity:**

Belongs to the claudin family.

**SWISS:**

O95832

**Gene ID:**

9076

**Database links:**

[Entrez Gene: 9076](#) Human

[Entrez Gene: 12737](#) Mouse

[Entrez Gene: 65129](#) Rat

[SwissProt: O95832](#) Human

[SwissProt: O88551](#) Mouse

[SwissProt: P56745](#) Rat



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