

## Product datasheet for **TA306786**

### Claudin 1 (CLDN1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 5 ug/mL, IF: 20 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	CLDN1 antibody was raised against a 20 amino acid synthetic peptide near the carboxy terminus of human CLDN1. The immunogen is located within the last 50 amino acids of CLDN1.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	claudin 1
Database Link:	<a href="#">CAG33419</a> <a href="#">Entrez Gene 9076 Human</a> <a href="#">O95832</a>



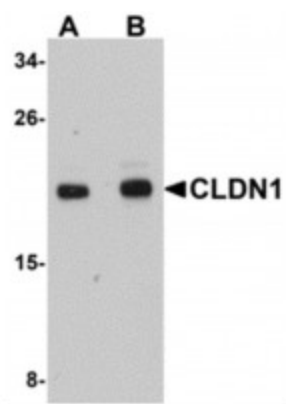
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**Background:**

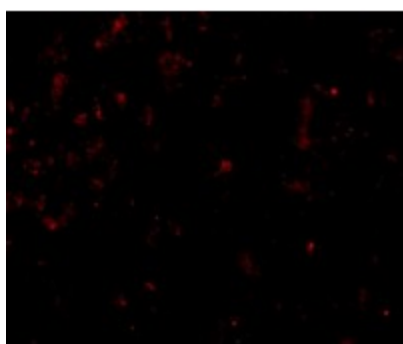
Claudin1 (CLDN1), a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Tight junctions are specialized regions of cell to cell contact consisting of networking strands that act as a molecular gasket for preventing the leakage of ions, water, etc., between cells. They are abundant in luminal epithelial sheets where they maintain epithelial cell polarity. Different tissues exhibit different Claudin composition and CLDN1 expression is often cell type and tissue dependent. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. CLDN1 and CLDN2 were found to be overexpressed in colonal cancer tissues and may be useful as tumor markers and targets for the treatment of colorectal cancer. Characterization of Claudins expression in human tumors can be an additional diagnostic tool. Recent studies show that CLDN1 has gastric tumor suppressive activity and is a direct transcriptional target of RUNX3. Along with SCARB1, LDL-R, and the tetraspanin superfamily member CD81, CLDN1 has been reported to be an entry factor for the Hepatitis C virus.

**Synonyms:**

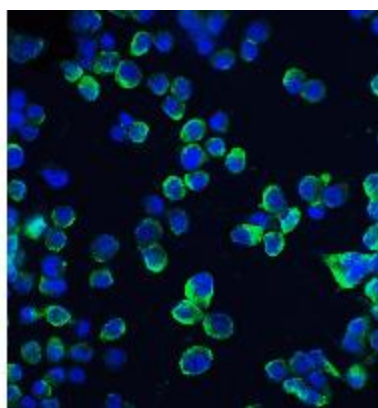
CLD1; ILVASC; SEMP1

**Product images:**


Western blot analysis of CLDN1 in HepG2 cell lysate with CLDN1 antibody at (A) 1 and (B) 2ug/ml.



Immunofluorescence of CLDN1 in HepG2 cells with CLDN1 antibody at 20ug/ml.



Immunofluorescence of CLDN1 in HepG2 cells with CLDN1 antibody at 20ug/ml.



Immunocytochemistry of CLDN1 in HepG2 cells with CLDN1 antibody at 5ug/ml.