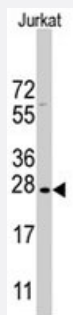


# CLDN1 polyclonal antibody

Catalog # PAB4903

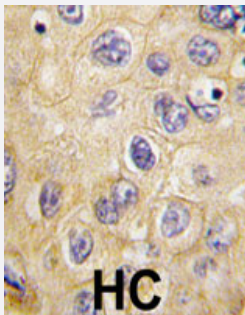
Size 400 uL

## Applications



### Western Blot (Cell lysate)

Western blot analysis of CLDN1 polyclonal antibody (Cat # PAB4903) in Jurkat cell lysate (35 ug/lane). CLDN1 (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma reacted with CLDN1 polyclonal antibody (Cat # PAB4903) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic peptide of CLDN1.
<b>Immunogen</b>	A synthetic peptide (conjugated with KLH) corresponding to the Loop1 region of human CLDN1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein A purification

<b>Recommend Usage</b>	ELISA (1:1000) Western Blot (1:50-100) Immunohistochemistry (1:10-50) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — CLDN1

<b>Entrez GeneID</b>	<a href="#">9076</a>
<b>Protein Accession#</b>	<a href="#">NP_066924;O95832</a>
<b>Gene Name</b>	CLDN1
<b>Gene Alias</b>	CLD1, ILVASC, SEMP1
<b>Gene Description</b>	claudin 1
<b>Omim ID</b>	<a href="#">603718</a> <a href="#">607626</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

## Gene Summary

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]

## Other Designations

senescence-associated epithelial membrane protein 1

## Publication Reference

- [Selective up-regulation of claudin-1 and claudin-2 in colorectal cancer.](#)

Kinugasa T, Huo Q, Higashi D, Shibaguchi H, Kuroki M, Tanaka T, Futami K, Yamashita Y, Hachimine K, Maekawa S, Nabeshima K, Iwasaki H, Kuroki M.

Anticancer Research 2007 Nov; 27(6A):3729.

Application: IHC-P, Human, Human colorectal Cancer

- [Decreased expression of claudin-1 correlates with recurrence status in breast cancer.](#)

Morohashi S, Kusumi T, Sato F, Odagiri H, Chiba H, Yoshihara S, Hakamada K, Sasaki M, Kijima H.

International Journal of Molecular Medicine 2007 Aug; 20(2):139.

Application: IHC-P, Human, Human breast cancer

- [Claudin-1 and claudin-5 expression patterns differentiate lung squamous cell carcinomas from adenocarcinomas.](#)

Paschoud S, Bongiovanni M, Pache JC, Citi S.

Modern Pathology 2007 Sep; 20(9):947.

Application: IHC-P, Human, Human lung cancer

## Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Leukocyte transendothelial migration](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Tight junction](#)

## Disease

- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Substance Abuse](#)
- [Tobacco Use Disorder](#)