

Rabbit anti-Human Claudin 1/CLDN1 Polyclonal Antibody | anti-CLDN1 antibody

Anti-Claudin 1/CLDN1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125612	Rabbit	Human	Immunofluorescence, Immunocytochemistry, Immunohistochemistry

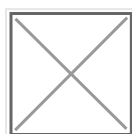
PRODUCT SYNONYMS

Claudin 1/CLDN1; Polyclonal Antibody; Anti-Claudin 1/CLDN1 Antibody; CLDN1; CLD1; SEMP1; UNQ481/PRO944; Claudin-1; Senescence-associated epithelial membrane protein; claudin 1; anti-CLDN1 antibody

PRODUCT SPECIFICATIONS

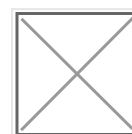
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Claudin 1/CLDN1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-CLDN1 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to a sequence of human Claudin 1/CLDN1 (ATAWYGNRIVQEFD).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IF (Immunofluorescence)

Figure 5. IF analysis of Claudin 1/CLDN1 using anti- Claudin 1/CLDN1 antibody (AAA125612). Claudin 1/CLDN1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5µg/mL rabbit anti- Claudin 1/CLDN1 Antibody (AAA125612) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



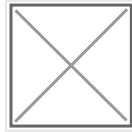
IF (Immunofluorescence)

Figure 4. IF analysis of Claudin 1/CLDN1 using anti-Claudin 1/CLDN1 antibody (AAA125612). Claudin 1/CLDN1 was detected in immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-Claudin 1/CLDN1 Antibody (AAA125612) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



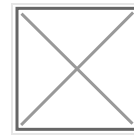
IHC (Immunohistochemisry)

Figure 3. IHC analysis of Claudin 1/CLDN1 using anti Claudin 1/CLDN1 antibody (AAA125612). Claudin 1/CLDN1 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Claudin 1/CLDN1 Antibody (AAA125612) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 1. IHC analysis of Claudin 1/CLDN1 using anti Claudin 1/CLDN1 antibody (AAA125612). Claudin 1/CLDN1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Claudin 1/CLDN1 Antibody (AAA125612) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of Claudin 1/CLDN1 using anti Claudin 1/CLDN1 antibody (AAA125612). Claudin 1/CLDN1 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-Claudin 1/CLDN1 Antibody (AAA125612) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CLDN1 antibody	Claudin-1 is a protein that in humans is encoded by the CLDN1 gene. 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.
References	1. Baala, L., Hadj-Rabia, S., Hamel-Teillac, D., Hadchouel, M., Prost, C., Leal, S. M., Jacquemin, E., Sefiani, A., de Prost, Y., Courtois, G., Munnich, A., Lyonnet, S., Vabres, P. Homozygosity mapping of a locus for a novel syndromic ichthyosis to chromosome 3q27-q28. J. Invest. Derm. 119: 70-76, 2002. 2. Coyne, C. B., Gambling, T. M., Boucher, R. C., Carson, J. L., Johnson, L. G. Role of claudin interactions in airway tight junctional permeability. Am. J. Physiol. Lung Cell. Molec. Physiol. 285: L1166-L1178, 2003. 3. Dhawan, P., Singh, A. B., Deane, N. G., No, Y., Shiou, S. -R., Schmidt, C., Neff, J., Washington, M. K., Beauchamp, R. D. Claudin-1 regulates cellular transformation and metastatic behavior in colon cancer. J. Clin. Invest. 115: 1765-1776, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10863887
NCBI GeneID	9076
NCBI Accession #	NP_066924.1
NCBI GenBank Nucleotide #	NM_021101.4
UniProt Accession #	O95832
Molecular Weight	22,744 Da
NCBI Official Full Name	claudin-1
NCBI Official Synonym Full Names	claudin 1

NCBI Official Symbol	CLDN1
NCBI Official Synonym Symbols	CLD1; SEMP1; ILVASC
NCBI Protein Information	claudin-1; senescence-associated epithelial membrane protein 1
UniProt Protein Name	Claudin-1
UniProt Gene Name	CLDN1
UniProt Synonym Gene Names	CLD1; SEMP1
UniProt Entry Name	CLD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/claudin-1-cldn1-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/125612>