

anti-Human, Rat Claudin 2 Polyclonal Antibody | anti-CLDN2 antibody

Anti-Claudin 2 Antibody

CATALOG # AAA46213	REACTIVITY Human, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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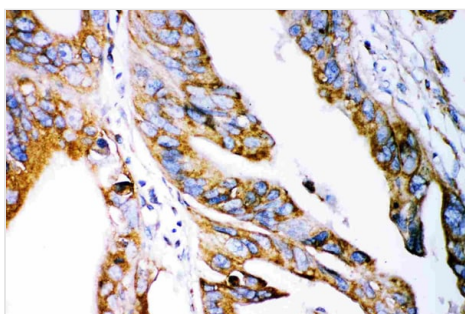
PRODUCT SYNONYMS

Claudin 2; Polyclonal Antibody; Anti-Claudin 2 Antibody; Claudin-2; Claudin2; CLD2_HUMAN; CLDN 2; CLDN2; OTTHUMP00000023793; SP 82; SP82; claudin 2; anti-CLDN2 antibody

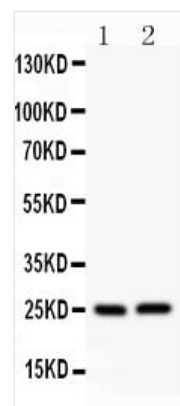
PRODUCT SPECIFICATIONS

Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	230
Applicable Applications for anti-CLDN2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Claudin 2 recombinant protein (Position: A38-V230). Human Claudin 2 shares 92% amino acid (aa) sequence identity with mouse Claudin 2.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
Anti- Claudin 2 antibody, IHC(P)IHC(P): Human Intestinal Cancer Tissue



WB (Western Blot)
Anti- Claudin 2 antibody, Western blottingAll lanes: Anti Claudin 2 at 0.5ug/mLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Rat Liver Tissue Lysate at 50ugPredicted bind size: 25KDObserved bind size: 25KD

ADDITIONAL INFORMATION

Related Product Information for anti-CLDN2 antibody	Description: Rabbit IgG polyclonal antibody for Claudin-2(CLDN2) detection. Tested with WB, IHC-P in Human;Rat. Background: Claudin-2 is a protein that in humans is encoded by the CLDN2 gene. By genomic sequence analysis, this gene is mapped to chromosome Xq22.3-q23. This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. By expression in a human intestinal epithelial cell line, it was determined that the intestine-specific homeodomain proteins CDX1 and CDX2 activated a reporter plasmid driven by the CLDN2 promoter.
References	1. Morita K, Furuse M, Fujimoto K, Tsukita S (Mar 1999). "Claudin multigene family encoding four-transmembrane domain protein components of tight junction strands". Proc Natl Acad Sci U S A 96 (2): 511-6. 2. Sakaguchi, T., Gu, X., Golden, H. M., Suh, E., Rhoads, D. B., Reinecker, H.-C. Cloning of the human claudin-2 5-prime-flanking region revealed a TATA-less promoter with conserved binding sites in mouse and human for caudal-related homeodomain proteins and hepatocyte nuclear factor-1-alpha. J. Biol. Chem. 277: 21361-21370, 2002. 3. Muto, S.; Hata, M.; Taniguchi, J.; Tsuruoka, S.; Moriwaki, K.; Saitou, M.; Furuse, K.; Sasaki, H.; Fujimura, A.; Imai, M.; Kusano, E.; Tsukita, S.; Furuse, M. (2010). "Claudin-2-deficient mice are defective in the leaky and cation-selective paracellular permeability properties of renal proximal tubules". Proceedings of the National Academy of Sciences 107 (17): 8011-8016.

NCBI AND UNIPROT INFORMATION

NCBI GI #	283806628
NCBI GeneID	9075
NCBI Accession #	NP_001164563.1
NCBI GenBank Nucleotide #	NM_001171092.1
UniProt Accession #	P57739; B2R6B9
Molecular Weight	24,549 Da
NCBI Official Full Name	claudin-2
NCBI Official Synonym Full Names	claudin 2
NCBI Official Symbol	CLDN2
NCBI Protein Information	claudin-2
UniProt Protein Name	Claudin-2
UniProt Gene Name	CLDN2
UniProt Entry Name	CLD2_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-2-antibody-immunohistochemistry-western-blot-elisa/46213>