

Datasheet for ABIN7601257
anti-Claudin 18 antibody (AA 31-261)



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Overview

Quantity:	100 µg
Target:	Claudin 18 (CLDN18)
Binding Specificity:	AA 31-261
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Claudin 18 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Claudin18/CLDN18 Antibody Picoband®
Immunogen:	E.coli-derived human Claudin18/CLDN18 recombinant protein (Position: S31-V261).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Claudin18/CLDN18 Antibody Picoband® (ABIN7601257). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Claudin 18 (CLDN18)
Alternative Name:	CLDN18 (CLDN18 Products)
Background:	<p>Synonyms: Tudor domain-containing protein 3, TDRD3</p> <p>Tissue Specificity: Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.</p> <p>Background: Claudin-18 is a protein that in humans is encoded by the CLDN18 gene. This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. This gene is upregulated in patients with ulcerative colitis and highly overexpressed in infiltrating ductal adenocarcinomas. PKC/MAPK/AP-1 (protein kinase C/mitogen-activated protein kinase/activator protein-1) dependent pathway regulates the expression of this gene in gastric cells. Alternatively spliced transcript variants encoding different isoforms have been identified.</p>
Molecular Weight:	30 kDa
Gene ID:	51208
UniProt:	P56856
Pathways:	Cell-Cell Junction Organization , Hepatitis C

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>Immunofluorescence, 5 µg/mL, Human, Rat</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Niimi, T., Nagashima, K., Ward, J. M., Minoo, P., Zimonjic, D. B., Popescu, N. C., Kimura, S. claudin-18, a novel downstream target gene for the T/EBP/NKX2.1 homeodomain transcription factor, encodes lung- and stomach-specific isoforms through alternative splicing. Molec. Cell. Biol. 21: 7380-7390, 2001.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.