



# CLDN4 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA005506A0HU
<b>Abbreviation</b>	Claudin-4
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	O14493
<b>Immunogen</b>	A synthesized peptide derived from human CLDN4
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA
<b>Relevance</b>	Channel-forming tight junction protein that mediates paracellular chloride transport in the kidney. Plays a critical role in the paracellular reabsorption of filtered chloride in the kidney collecting ducts. Claudins play a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Claudin-4, Clostridium perfringens enterotoxin receptor, CLDN4, CPER, CPETR1, WBSCR8
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	CLDN4
<b>Clone No.</b>	2G12

## Description

The recombinant CLDN4 antibody was prepared by obtaining the antibody genes, cloning the genes into a plasma vector to construct vector clone, transfecting the vector clone into a mammalian cell line for transient expression, and purifying the antibody by affinity-chromatography. This recombinant CLDN4 antibody has been verified to detect the CLDN4 protein from Human in the ELISA.

CLDN4 is a transmembrane protein involved in tight junction formation and function. It is responsible for the maintenance of epithelial cell polarity and the establishment of the intercellular barrier. CLDN4 is a well-known differentiation marker, and its presence is regarded to indicate a more epithelial phenotype.



Decreased expression of CLDN4 correlates with EMT. High expression of CLDN4 has been reported in multiple human malignancies, including ovarian, renal, and bladder cancer.

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**Usage**

For Research Use Only. Not for use in diagnostic or therapeutic procedures.