



CLDN4 Antibody

Product Code	CSB-RA005506A0HU
Abbreviation	Claudin-4
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	O14493
Immunogen	A synthesized peptide derived from human CLDN4
Species Reactivity	Human
Tested Applications	ELISA
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Claudin-4, Clostridium perfringens enterotoxin receptor, CLDN4, CPER, CPETR1, WBSCR8
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Gene Names	CLDN4
Accession NO.	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.