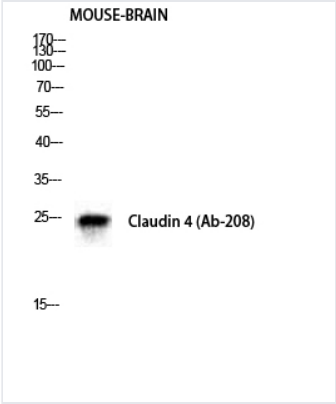
Claudin-4 (CLDN4) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Claudin-4 (CLDN4), Polyclonal Antibody
Full Product Name	Claudin-4 Polyclonal Antibody
Product Gene Name	anti-CLDN4 antibody
Product Synonym Names	CLDN4; CPER; CPETR1; WBSCR8; Claudin-4; Clostridium perfringens enterotoxin receptor; CPE-R; CPE-receptor; Williams-Beuren syndrome chromosomal region 8 protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	Claudin-4 Polyclonal Antibody detects endogenous levels of Claudin-4 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	22,077 Da
OMIM	602909
3D Structure	ModBase 3D Structure for O14493
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from human Claudin-4 around the non-phosphorylation site of Y208.
Target Name	Claudin-4
Product Categories/Family for anti-CLDN4 antibody	Total protein Ab
Applications Tested/Suitable for anti-CLDN4 antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-CLDN4 antibody	Western Blot: 1:500 - 1:2000 Immunohistochemistry: 1:100 - 1:300 ELISA: 1:5000 Not yet tested in other applications.
Related Product Information for anti-CLDN4 antibody	MBS9412051 is an antibody targeting CLDN4. Also known as Claudin-4 Polyclonal Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CLDN4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CLDN4 antibody
Western Blot analysis of mouse-BRAIN cells using Claudin-4 Polyclonal Antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLDN4. It may not necessarily be applicable to this product.

NCBI GI #	4502877
NCBI GeneID	1364
NCBI Accession #	NP_001296.1
UniProt Primary Accession #	O14493
UniProt Related Accession #	O14493
GenBank Nucleotide #	NM_001305.4
NCBI Official Full Name	claudin-4
NCBI Official Synonym Full Names	claudin 4
NCBI Official Symbol	CLDN4
NCBI Official Synonym Symbols	CPER; CPE-R; CPETR; CPETR1; WBSCR8; hCPE-R
UniProt Protein Name	Claudin-4
UniProt Synonym Protein Names	Clostridium perfringens enterotoxin receptor; CPE-R; CPE-receptor; Williams-Beuren syndrome chromosomal region 8 protein
Protein Family	Claudin
UniProt Gene Name	CLDN4
UniProt Synonym Gene Names	CPER; CPETR1; WBSCR8; CPE-R; CPE-receptor
UniProt Entry Name	CLD4_HUMAN
NCBI Protein Information	claudin-4
NCBI Summary for CLDN4	The protein encoded by this intronless gene belongs to the claudin family. Claudins are integral membrane proteins that are components of the epithelial cell tight junctions, which regulate movement of solutes and ions through the paracellular space. This protein is a high-affinity receptor for Clostridium perfringens enterotoxin (CPE) and may play a role in internal organ development and function during pre- and postnatal life. This gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems. [provided by RefSeq, Sep 2013]

UniProt Comments for CLDN4	Claudin-4: Plays a major role in tight junction-specific obliteration of the intercellular space. CLDN4 is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region. Belongs to the claudin family. Protein type: Cytoskeletal; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: tight junction; integral to plasma membrane; apicolateral plasma membrane; apical plasma membrane; plasma membrane; basal plasma membrane; lateral plasma membrane Molecular Function: identical protein binding; transmembrane receptor activity; structural molecule activity Biological Process: female pregnancy; response to progesterone stimulus; signal transduction; calcium-independent cell-cell adhesion
Research Articles on CLDN4	**1.** Our results indicate that CLDN4 expression is correlated with poor prognosis, and CLDN1 expression may be an indicator of recurrence of oral squamous cell carcinoma.
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