

Anti-Claudin 4 (pY208) Antibody

Rabbit polyclonal antibody to Claudin 4 (pY208) Catalog # AP61098

Specification

Anti-Claudin 4 (pY208) Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Calculated MW WB, IHC <u>014493</u> <u>035054</u> Human, Mouse, Rat Rabbit Polyclonal 22077

Anti-Claudin 4 (pY208) Antibody - Additional Information

Gene ID 1364

Other Names CPER; CPETR1; WBSCR8; Claudin-4; Clostridium perfringens enterotoxin receptor; CPE-R; CPE-receptor; Williams-Beuren syndrome chromosomal region 8 protein

Target/Specificity Recognizes endogenous levels of Claudin 4 (pY208) protein.

Dilution WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100) IHC~~1:100~500

Format Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage Store at -20 °C.Stable for 12 months from date of receipt

Anti-Claudin 4 (pY208) Antibody - Protein Information

Name CLDN4 {ECO:0000303|PubMed:35773259, ECO:0000312|HGNC:HGNC:2046}

Function

Can associate with other claudins to regulate tight junction structural and functional strand dynamics (PubMed:35773259, PubMed:36008380). May coassemble with CLDN8 into tight junction strands containing anion-selective channels that convey paracellular chloride permeability in renal collecting ducts (By similarity) (PubMed:36008380). May integrate into CLDN3 strands to modulate localized tight



junction barrier properties (PubMed:35773259, PubMed:36008380). May disrupt strand assembly of channel-forming CLDN2 and CLDN15 and inhibit cation conductance (PubMed:35773259, PubMed:36008380). Cannot form
tight junction strands on its own (PubMed:<a href="http://www.uniprot.org/citations/35773259"
target="_blank">35773259, PubMed:<a href="http://www.uniprot.org/citations/36008380"
target="_blank">36008380).

Cellular Location Cell junction, tight junction. Cell membrane; Multi-pass membrane protein

Anti-Claudin 4 (pY208) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-Claudin 4 (pY208) Antibody - Images



Western blot analysis of Claudin 4 (pY208) expression in mouse embryo (A), rat ovary (B), Panc1 (C), HCT116 (D) whole cell lysates.





Immunohistochemical analysis of Claudin 4 (pY208) staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Direct ELISA antibody dose-response curve using Anti-Claudin 4 (pY208) Antibody. Antigen (phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

Anti-Claudin 4 (pY208) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Claudin 4. The exact sequence is proprietary.