Product Name: Claudin-3 (phospho Tyr219) Rabbit Polyclonal Antibody
Catalog #: APRab04471

Summary

Production Name	Claudin-3 (phospho Tyr219) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CLDN3
Alternative Names	CLDN3; C7orf1; CPETR2; Claudin-3; Clostridium perfringens enterotoxin receptor 2; CPE-R 2; CPE-receptor 2; Rat ventral prostate.1 protein homolog; hRVP1
Gene ID	1365.0
SwissProt ID	O15551.The antiserum was produced against synthesized peptide derived from human Claudin 3 around the phosphorylation site of Tyr219. AA range:171-220

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:5000
Molecular Weight	28kD

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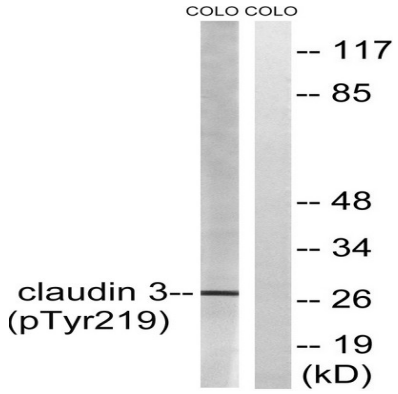
Background

Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this intronless gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. It is also a low-affinity receptor for Clostridium perfringens enterotoxin, and shares aa sequence similarity with a putative apoptosis-related protein found in rat. [provided by RefSeq, Jul 2008],disease:Haploinsufficiency of CLDN3 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in Williams-Beuren syndrome (WBS), a rare developmental disorder. It is a contiguous gene deletion syndrome involving genes from chromosome band 7q11.23.,function:Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.,similarity:Belongs to the claudin family.,subunit:Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN1 and CLDN2 homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3.,

Research Area

Cell adhesion molecules (CAMs);Tight junction;Leukocyte transendothelial migration;

Image Data



Western blot analysis of lysates from COLO205 cells treated with EGF 200ng/ml 30 ', using Claudin 3 (Phospho-Tyr219) Antibody. The lane on the right is blocked with the phospho peptide.

Note

For research use only.