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Datasheet for 600-401-AL4

CLAUDIN4 Antibody

Overview

Description:	Anti-Claudin4 (RABBIT) Antibody - 600-401-AL4
Item No.:	600-401-AL4
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	CLAUDIN4 is an integral membrane protein belonging to the claudin family, a family of cellular adhesion molecules that are components of tight junctions. CLAUDIN4 is a component of tight junction strands and may play a role in internal organ development and function during pre- and postnatal life. The CLAUDIN4 gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems. CLAUDIN4 is frequently overexpressed in ovarian and other epithelial cancers.
Synonyms:	CLAUDIN4 Antibody, CPER, CPE-R, CPETR, CPETR1, WBSCR8, hCPE-R, CPER, Claudin-4, Clostridium perfringens enterotoxin receptor
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CLDN4
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-CLAUDIN4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human CLAUDIN4.

Purity/Specificity:	Anti-CLAUDIN4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. At least four isoforms of CLAUDIN4 are known to exist; CLAUDIN4 antibody will detect all four isoforms
Relevant Links:	• UniProtKB - O14493 • GeneID - 1364 • NCBI - NP_001296

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-CLAUDIN4 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 22 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
WB:	1 µg/mL

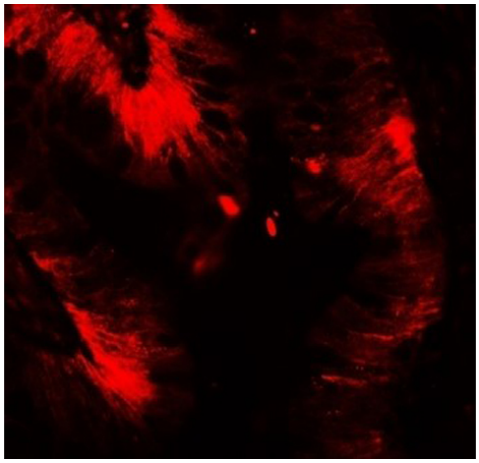
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

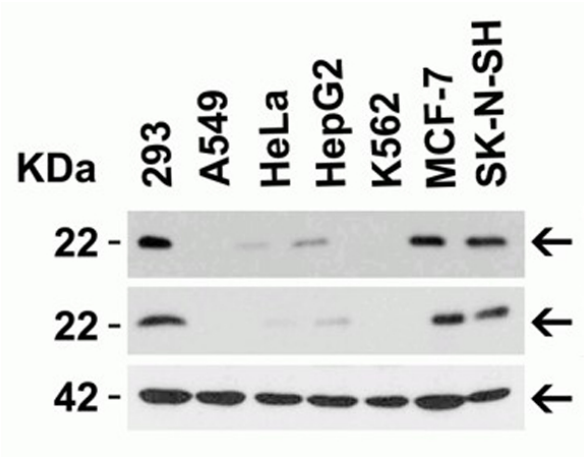
Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

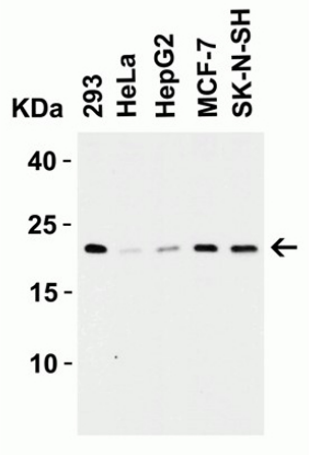
Images



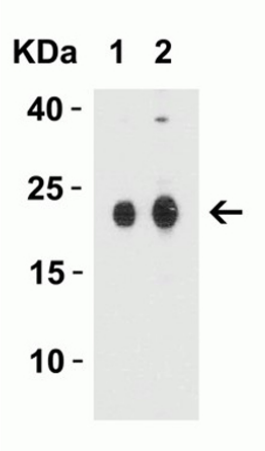
Immunofluorescence Microscopy
Immunofluorescence of Claudin 4.
Tissue: human colon tissue.
Primary Antibody: Claudin 4 antibody at 20µg/mL.



Western Blot
Western blot analysis of Claudin 4.
Load: 15 µg of human lysates per lane.
Primary Antibodies: top: Claudin 4 (p/n 600-401-AL4), middle: Claudin 4, and bottom: beta-actin; at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western Blot analysis of Claudin 4.
Load: 15 µg of human lysates per lane.
Primary Antibodies: Claudin 4 at 1µg/mL for 1h at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot
Western blot analysis of Claudin 4.
Load: 15 µg of Human Colon Tissue lysates per lane.
Primary Antibody: Claudin 4 (Lane 1: 1 µg/mL and Lane 2: 2 µg/mL) for 1h incubation at RT in 5% NFDM/TBST.
Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Disclaimer

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