Overview

Product name: Anti-Claudin 4 antibody

Description: Rabbit polyclonal to Claudin 4

Host species: Rabbit

Tested applications: Suitable for: WB, ICC/IF, IHC-P

Species reactivity: Reacts with: Mouse, Human

Predicted to work with: Pig

Immunogen: Synthetic peptide within Human Claudin 4 aa 150 to the C-terminus. The exact sequence is proprietary.

Database link: O14493

Positive control: Tested with tonsil and ovarian carcinoma cells.

Properties

Form: Liquid

Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer: pH: 7.6

Preservative: 0.1% Sodium azide

Constituents: PBS, 1% BSA

Purity: Immunogen affinity purified

Clonality: Polyclonal

Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab15104 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Function
Plays a major role in tight junction-specific obliteration of the intercellular space.

Involvement in disease
Note=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.

Sequence similarities
Belongs to the claudin family.

Cellular localization
Cell junction > tight junction. Cell membrane.

Images

Immunohistochemical analysis of healthy and colitis mouse colon sections (untreated and treated with enoxaparin) labeling claudin-4 with ab15104 at 1/200. ab7090, anti-rabbit immunoglobulin G conjugated to horseradish peroxidase (HRP) at 1/300 was used as the secondary antibody. ab64238 at 1/50 was used to develop the histological signal.

Antigen retrieval was performed by incubating the sections for 10 minutes at 97°C in 1 mM EDTA buffer, pH 8.0 or 10 mM citrate buffer, pH 6.0.

Control, C; untreated colitis, DSS; oral enoxaparin, OE; intraperitoneal injection of enoxaparin, IPE.
Anti-Claudin 4 antibody (ab15104) at 1 µg/ml + SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate at 10 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 22 kDa

**Observed band size:** 20 kDa

*why is the actual band size different from the predicted?*

**Additional bands at:** 125 kDa, 34 kDa, 35 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 30 seconds

Formalin fixed paraffin embedded human tonsil stained with ab15104 (1/200, 10 min at room temperature).

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