IBL Data Sheet

Code No. 18801

Anti-Mouse
Claudin-12 (C) Rabbit IgG Affinity Purify

Volume : 100 µg

Introduction : The tight junction is identified as a belt-like region in which two lipid-apposing membranes lie close together (tight junction strands). Tight junction strands of the adjacent cells form tightly connected pairs. The proteins involved in the formation of tight junctions are divided into two categories: 1) integral membrane proteins, such as occludin, claudin and junctional adhesion molecule, JAM and 2) peripheral membrane proteins (cytoplasmic plaque proteins), MAGUK (membrane-associated guanylate kinase) homologue proteins, such as ZO-1, 2, 3, cingulin, symplekin, 19B1, and AF-6.
In human, the claudin superfamily consists of at least 18 members, which are involved on paracellular transport as structural and functional components of tight junction. Claudins are directly associated with ZO-1, 2 and 3 and indirectly with AF-6 and cingulin.
It is known that Claudin-1, -2, -6, -7, -15 are distributed at liver or kidney and Claudin-5 is distributed at vascular endothelial cells in mouse, respectively.

Antigen : Synthetic peptide of the C terminal part of Mouse Claudin-12 (GMHTYSQPYSSRSRLSAI)

Purification : Purified with antigen peptide

Form : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 – 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunostaining with frozen sections by mmunofluorescent method. The optimal concentration is about 5 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 0.5 µg /mL.

Specificity : Claudin-12 specific.
Not cross-react with Claudin-1, -2, -3, -4, -5, -6, -7, -8 and –15.
(Confirmed by western blotting using each transfectant.)

Reference :

1. Fujita H, Chiba H, Yokozaki H, Sakai N, Sugimoto K, Wada T, Kojima T, Yamashita T, Sawada N. Differential expression and subcellular localization of claudin-7, -8, -12, -13, and -15 along the mouse intestine.: J Histochem Cytochem. 2006 Aug ;54 (8) :933-44.
2. Chiba H, Kojima T, Osanai M, Sawada N.: The significance of interferon-gamma-triggered internalization of tight-junction proteins in inflammatory bowel disease.: Sci STKE. 2006 Jan 3;2006(316):pe1.

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