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Anti-Claudin 10 Antibody

Catalog # AP51092

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P78369
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24488

Additional Information

Gene ID	9071
Other Names	Claudin-10; OSP-like protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Claudin 10. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

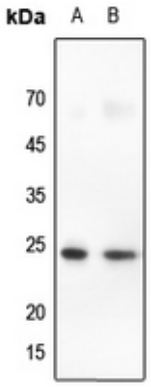
Protein Information

Name	CLDN10 {ECO:0000303|PubMed:28771254, ECO:0000312|HGNC:HGNC:2033}
Function	Forms paracellular channels: polymerizes in tight junction strands with cation- and anion-selective channels through the strands, conveying epithelial permeability in a process known as paracellular tight junction permeability.
Cellular Location	[Isoform 1]: Cell junction, tight junction. Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the kidney, eccrine sweat glands and in all layers of the epidermis. In the kidney, it is detected in the thick ascending limb of Henle's loop (TAL) (PubMed:28686597, PubMed:28771254). In the sweat glands, it is expressed in cells from secretory portions, corresponding to the clear cells (PubMed:28686597)

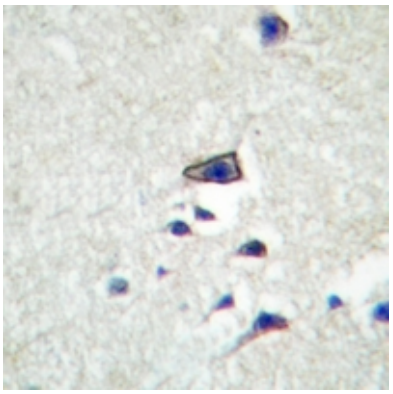
References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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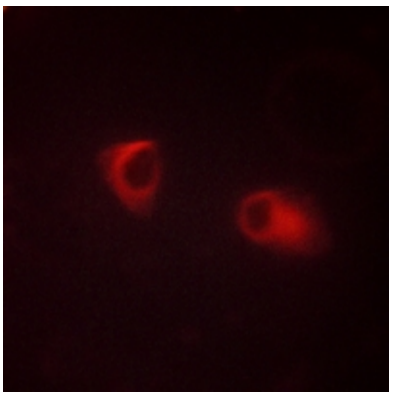
Images



Western blot analysis of Claudin 10 expression in mouse brain (A), rat brain (B) whole cell lysates. (Predicted band size: 24 kD; Observed band size: 24 kD)



Immunohistochemical analysis of Claudin 10 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.



Immunofluorescent analysis of Claudin 10 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.