Mouse Anti-Claudin 4 [A12]: MC0209, MC0209RTU7

Intended Use: For Research Use Only

Description: The claudin superfamily consists of many structurally related proteins in humans. These proteins are important structural and functional components of tight junctions in paracellular transport. Claudins are located in both epithelial and endothelial cells in all tight junction-bearing tissues. Three classes of proteins are known to localize to tight junctions, including the Claudins, Occludin and Junction adhesion molecule. Claudins, which consist of four transmembrane domains and two extracellular loops make up tight junction strands. Claudin expression is highly restricted to specific regions of different tissues and may have an important role in transcellular transport through tight junctions. Claudin-4 is not expressed in rat liver, whereas in pancreas, claudin-4 is localized to junctions of the duct epithelia and junctions of acinar cells. In the rat gut, claudin-4 displays highly restricted expression to colonic surface cells. The human claudin-4 gene maps to chromosome 7q11.23.

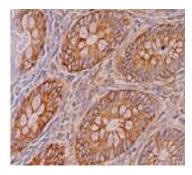
Specifications:

Package: Description	Catalog No. Size	
Applications:	IHC, ELISA, ICC/IF, IP, WB	
Storage:	Store at 2°-8°C	
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3)	
	Cell junction, membrane Antihada in PDS $\pi U7.4$ containing DSA and $\leq 0.000($ and investigation of A (MaN2)	
Localization:		
Immunogen:	Epitope mapping between as 183-209 within a C-terminal of human claudin-4	
Reactivity:	Human, mouse, rat	
Isotype:	IgG1k	
Source:	Mouse	
Clone:	A12	

Description	Catalog No.	Size
Claudin 4 Concentrated	MC0209	1 ml
Claudin 4 Prediluted	MC0209RTU7	7 ml

IHC Procedure*:

Positive Control Tissue:	Appendix, extracts from HeLa cells			
Concentrated Dilution:	50-200			
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 min Pressure Cooker or 30-60 min water bath at 95°-99°C			
Incubation Time and Temp:	30-60 minutes @ RT			
Detection:	Refer to the detection system manual			
* Result should be confirmed by an established diagnostic procedure.				



FFPE human appendix stained with anti-Claudin 4 using DAB

References:

- Changes in the expression profiles of claudins during gonocyte differentiation and in seminomas. Manku, G. et al. Andrology. 4: 95-110, 2016.
- 2. Claudin-4 undergoes age-dependent change in cellular localization on pig jejunal villous epithelial cells, independent of bacterial colonization. Pasternak JA, et al. Mediators Inflamm 2015:263629, 2015.

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