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DATA SHEET

Rabbit Anti-Claudin 7 Polyclonal: RC0154, RC0154RTU7

Intended Use: For Research Use Only

Description: Claudin-7, encoded by the CLDN7 gene, is a member of the claudin family. Claudin-7 is a transmembrane protein involved in the formation of tight junctions between epithelial cells.1 The Claudin family of proteins are involved in critical roles of cellular polarity, signal transductions, and have been implicated in the pathogenesis of various human neoplasms including chromophobe renal cell carcinoma. Claudin-7 could be a useful immunohistochemical marker for the distinction and identification of chromophobe renal cell carcinoma. Claudin-7 expression is down-regulated in colorectal cancer (CRC) and lung cancer tissues and loss of Claudin-7 is associated with the degree of cancer cell differentiation and metastasis. While Claudin-7 downregulation was found in Esophageal, Head/Neck, and Prostate Cancers, overexpression of Claudin-7 is found in many Ovarian Cancers and may also lead to increased tumor invasiveness.

Specifications

Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse, rat
Immunogen:	Synthesized non-phosphopeptide derived from human Claudin 7 tyrosine 210
Localization:	Membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, WB

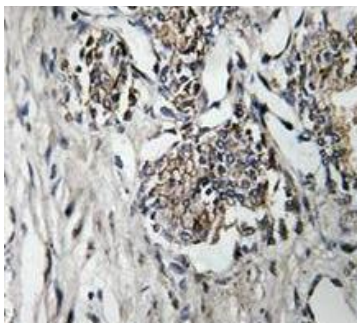
Package:

Description	Catalog No.	Size
Claudin 7 Concentrated	RC0154	1 ml
Claudin 7 Prediluted	RC0154RTU7	7 ml

IHC Procedure

Positive Control:	Chromophobe renal cell carcinoma
Concentrated Dilution:	10-100
Pretreatment:	Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes water bath at 95°-99°C
Incubation Time and Temp:	Overnight @ 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human prostate carcinoma stained with anti-Claudin 7 using DAB

References:

1. Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer. Vasudevan A, et al. Dev Cell 52:413-428.e6, 2020.
2. Nuclear expression of claudin-3 in human colorectal adenocarcinoma cell lines and tissues. Tokuhara Y, et al. Oncol Lett 15:99-108, 2018.

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