

Rabbit Anti-Cadherin-ksp/CDH16 [MD127R]: RM0358, RM0358RTU7

Intended Use: For Research Use Only

Description: Kidney-specific cadherin, also known as Cadherin-16, is a member of the calcium dependent family of adhesion molecules that play important roles during embryonic development, maintenance of tissue architecture and growth control during tumorigenesis. In the kidney, Ksp-cadherin expression is uniquely localized predominantly in the distal portion of the nephron. There are four major subtypes of renal neoplasms; clear cell and papillary renal cell carcinoma are thought to be of proximal tubular origin, while oncocytoma and chromophobe renal cell carcinoma (RCC) are derived from cells of the distal nephron. Studies have shown high sensitivity and specificity of Ksp-cadherin to chromophobe RCC (86-100%) and oncocytoma (76-95%). Conversely, low reactivity was observed with clear cell RCC (14-30%) and papillary RCC (0-13%), supporting the use of Ksp-cadherin as a marker for the distal portion of the nephron, and for its use as an adjunct for the detection of chromophobe RCC and oncocytoma.

Specifications

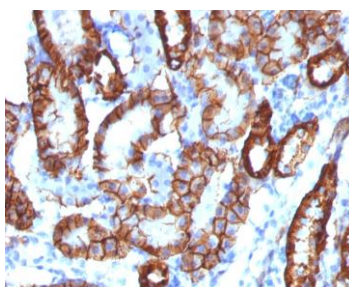
Clone: MD127R
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human
 Immunogen: Recombinant human full-length CDH16 protein
 Localization: membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., WB
 Package:

Description	Catalog No.	Size
Cadherin-ksp/CDH16 Concentrated	RM0358	1 ml
Cadherin-ksp/CDH16 Prediluted	RM0358RTU7	7 ml

IHC Procedure

Positive Control: Normal kidney or renal cell carcinoma
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 kidney stained with anti-Cadherin-ksp using DAB

References:

1. Expression of Ksp-cadherin during kidney development and in renal cell carcinoma. Thedieck C, et al. Br J Cancer. Jun 6;92(11):2010-7, 2005.
2. Ksp-cadherin is a functional cell-cell adhesion molecule related to LI-cadherin. Wendeler MW, et al. Exp Cell Res. Apr 1;294(2):345-55, 2004.
3. Immunolocalization of Ksp-cadherin in the adult and developing rabbit kidney. Thomson RB, et al. Am J Physiol. Jul;277(1 Pt 2):F146-56, 1999.

Doc. 100-RM0358
Rev. B