

Mouse Anti-Cadherin-ksp/CDH16 [CDH16/1071]: MC0829, MC0829RTU7

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:

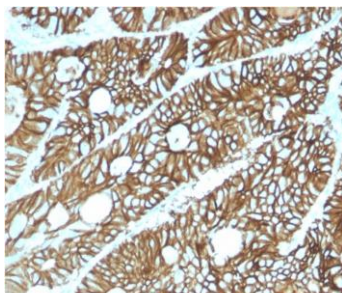
Clone: CDH16/1071
Source: Mouse
Isotype: IgG1k
Reactivity: Human, mouse, rat, rabbit, dog
Immunogen: Recombinant fragment around aa 242-418 of human Cadherin 17 protein
Localization: Membrane
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC
Package:

Description	Catalog No.	Size
Cadherin-ksp/CDH16 Concentrated	MC0829	1 ml
Cadherin-ksp/CDH16 Prediluted	MC0829RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: 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 colon 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.