Datasheet for ABIN6939022

anti-Cadherin-16 antibody (AA 371-507)

5 Images

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Overview

Quantity:	100 µg
Target:	Cadherin-16 (CDH16)
Binding Specificity:	AA 371-507
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cadherin-16 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Formalin-fixed Sections) (IHC (f)), Coating (Coat)

Product Details

Immunogen:	Recombinant fragment (around aa 371-507) of human CDH16 protein (exact sequence is proprietary)
Clone:	CDH16-2125
Isotype:	IgG1
Specificity:	This MAb recognizes a protein of 130 kDa, identified as Ksp-cadherin. Cadherins form a superfamily of related glycoproteins that mediate calcium-dependent cell adhesion and transmit signals from the extracellular matrix to the cytoplasm. Cadherins have been implicated in embryogenesis, tissue morphogenesis, tissue structure maintenance, cell polarization, neoplastic invasiveness and metastasis, and membrane transport. It is suggested that Ksp-cadherin is a marker for terminal differentiation of the basolateral membranes of renal tubular

Product Details

	epithelial cells. Within the kidney, Ksp-Cadherin is found exclusively in the basolateral membrane of renal tubular epithelial cells and collecting duct cells, and not in glomeruli, renal interstitial cells, or blood vessels.Ksp-Cadherin has been suggested to distinguish Chromophobe Renal-Cell Carcinoma from Oncocytoma.
Cross-Reactivity (Details):	Human,
Purification:	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.

Target Details

Target:	Cadherin-16 (CDH16)
Alternative Name:	CDH16 (CDH16 Products)
Background:	Cadherin-16 (CDH16), Kidney-specific cadherin, Ksp-cadherin antibody,Ksp-Cadherin / CDH16 (Renal Cell Marker) Cellular localisation: Cell Surface and Cytoplasmic
Molecular Weight:	130kDa
Gene ID:	1014, 513660
UniProt:	O75309

Application Details

Application Notes:	Positive Control: Normal kidney or renal cell carcinoma. Known Application: ELISA (For coating, order Ab without BSA),Western Blot (1-2 µ g/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

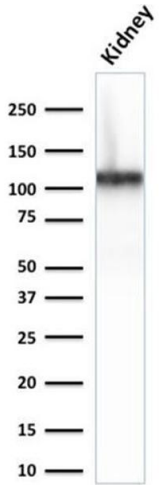
Handling

Concentration:	200 µg/mL
Buffer:	Prepared in 10 mM PBS with 0.05 % BSA and 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

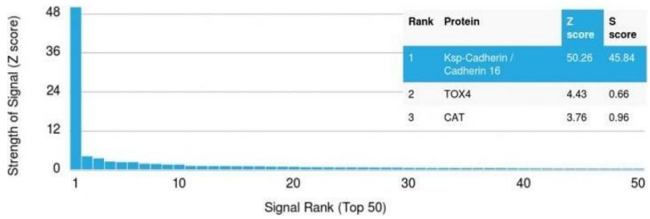
	should be handled by trained staff only.
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8 °C. Antibody is stable for 24 months. Non-hazardous. Also available WITHOUT BSA & azide at 1.0mg/ml.
Expiry Date:	24 months

Images



Western Blotting

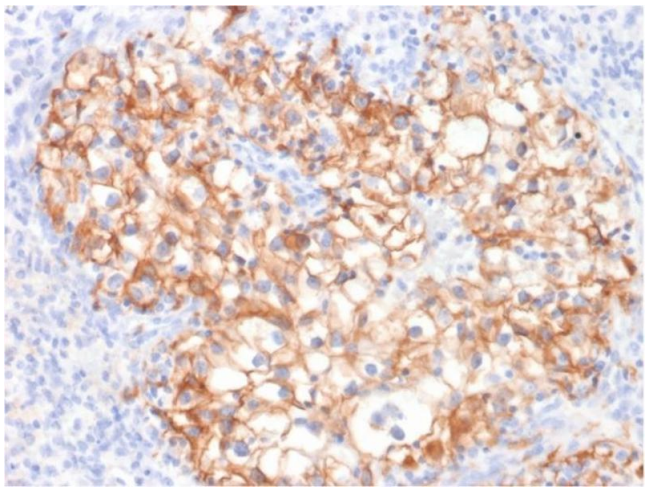
Image 1. Western Blot Analysis of Human Kidney lysate using CDH16-Monospecific Mouse Monoclonal Antibody (CDH16/2125)



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using CDH16-Monospecific Mouse Monoclonal Antibody (CDH16/2125). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score

of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with CDH16-Monospecific Mouse Monoclonal Antibody (CDH16/2125).

Please check the product details page for more images. Overall 5 images are available for ABIN6939022.