

Mouse anti-Human Ksp-Cadherin/CDH16 Monoclonal Antibody | anti-CDH16 antibody

Ksp-Cadherin/CDH16 (Renal Cell Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215475	Mouse	Human	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

Ksp-Cadherin/CDH16; Monoclonal Antibody; Ksp-Cadherin/CDH16 (Renal Cell Marker); Cadherin-16 (CDH16); Kidney-specific cadherin; Ksp-cadherin antibody; anti-CDH16 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	CDH16/2125
Specificity	This MAb recognizes a protein of 130kDa, 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 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.
Purity/Purification	Purified Ab conjugated to Biotin
Form/Format	Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin. Prepared in 10mM PBS with 0.05% BSA and 0.05% azide.
Sequence Length	807
Applicable Applications for anti-CDH16 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant fragment (around aa 371-507) of Human CDH16 protein (exact sequence is proprietary)
Cellular Localization	Cell Surface and Cytoplasmic
Hu-chromosome Location	16q22.1
Positive Control	Normal kidney or Renal cell carcinoma.
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

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 HuProt™ 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 HuProt™ 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.



SDS-PAGE

SDS-PAGE Analysis Purified CDH16 Mouse Monoclonal Antibody (CDH16/2125) (unconjugated). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human kidney stained with Biotin-conjugated CDH16Mouse Monoclonal Antibody (CDH16/2125).



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Formalin-fixed, paraffin-embedded human kidney stained with Biotin-conjugated CDH16Mouse Monoclonal Antibody (CDH16/2125).

ADDITIONAL INFORMATION

References	Shen, S.S., et al. 2005. Mod Pathol. 18: 933-40. Mazal, P.R., et al. 2005. Hum Pathol. 36: 22-28.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	325296969
NCBI GeneID	1014
NCBI Accession #	NP_001191673.1
NCBI GenBank Nucleotide #	NP_001191673.1
UniProt Accession #	O75309
Molecular Weight	130kDa
NCBI Official Full Name	cadherin-16 isoform 2
NCBI Official Synonym Full Names	cadherin 16
NCBI Official Symbol	CDH16
NCBI Protein Information	cadherin-16
UniProt Protein Name	Cadherin-16
UniProt Gene Name	CDH16
UniProt Synonym Gene Names	Ksp-cadherin
UniProt Entry Name	CAD16_HUMAN

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