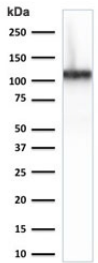
Cadherin 16 Antibody [clone CDH16/2125] (V3691)

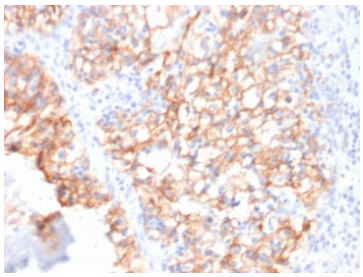
Catalog No.	Formulation	Size
V3691-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3691-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3691SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3691IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

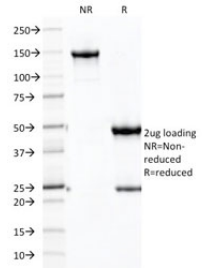
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	CDH16/2125
Purity	Protein G affinity chromatography
UniProt	O75309
Localization	Cell surface with some cytoplasmic
Applications	ELISA : order BSA/sodium azide-free format for coating Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Cadherin 16 antibody is available for research use only.



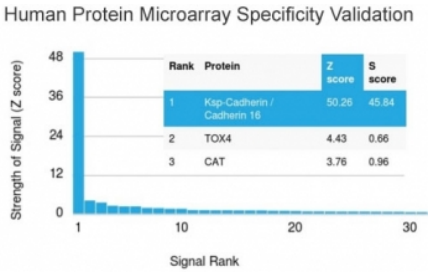
Western blot testing of human kidney lysate with Cadherin 16 antibody (clone CDH16/2125). Expected molecular weight: 90~130 kDa.



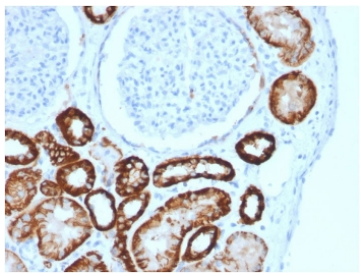
IHC testing of FFPE human renal cell carcinoma with Cadherin 16 antibody (clone CDH16/2125). Required HIER: boil tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



SDS-PAGE analysis of purified, BSA-free Cadherin 16 antibody (clone CDH16/2125) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CDH16 antibody. These results demonstrate the foremost specificity of the CDH16/2125 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC testing of FFPE human renal cell carcinoma with Cadherin 16 antibody (clone CDH16/2125). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

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 / Cadherin 16 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.

Application Notes

Optimal dilution of the Cadherin 16 antibody to be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Recombinant human partial protein (within amino acids 371-507) was used as the immunogen for the Cadherin 16

antibody.

Storage

Store the Cadherin 16 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).