

Datasheet for ABIN7126100

**anti-Cadherin-16 antibody (AA 371-507) (Biotin)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	0.5 mL
Target:	Cadherin-16 (CDH16)
Binding Specificity:	AA 371-507
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cadherin-16 antibody is conjugated to Biotin
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)
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 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

## Product Details

cells, or blood vessels. Ksp-Cadherin has been suggested to distinguish Chromophobe Renal-Cell Carcinoma from Oncocytoma.

Cross-Reactivity (Details): Human.

Purification: Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin.

## 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 (2-4ug/ml); Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 100 µg/mL

Buffer: 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.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

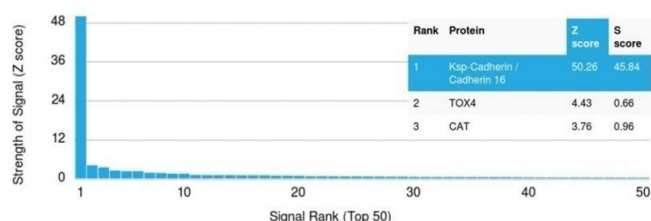
## Handling

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.

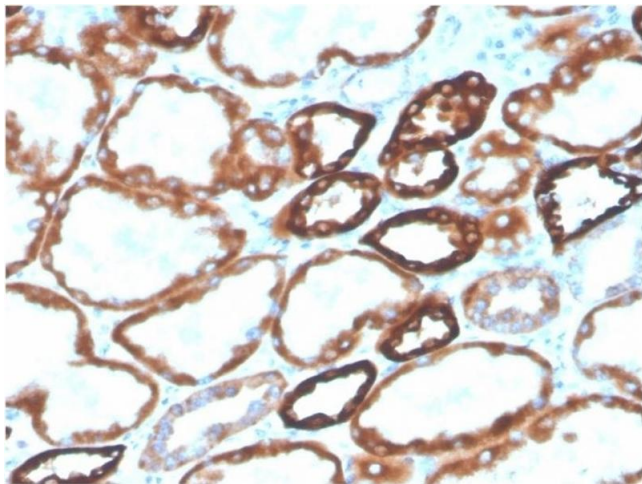
Expiry Date: 24 months

## Images



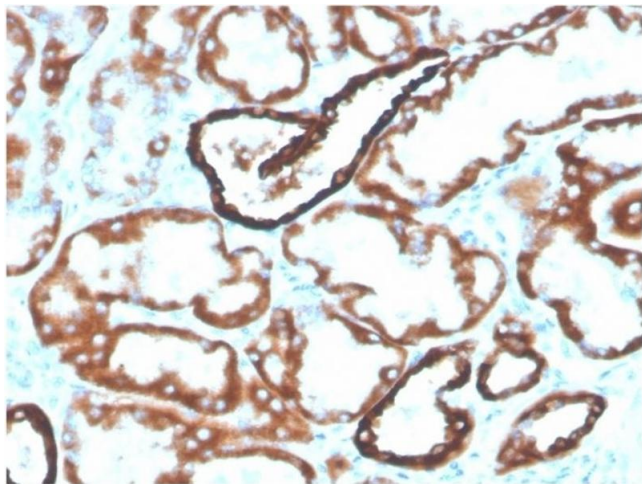
### Protein Array

**Image 1.** 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.



#### Immunohistochemistry

**Image 2.** Formalin-fixed, paraffin-embedded human kidney stained with Biotin-conjugated CDH16 Mouse Monoclonal Antibody (CDH16/2125).



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human kidney stained with Biotin-conjugated CDH16 Mouse Monoclonal Antibody (CDH16/2125).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7126100.