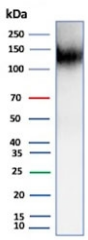
Recombinant Cadherin 16 Antibody [clone CDH16/9611R] (V5384)

Catalog No.	Formulation	Size
V5384-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5384-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5384SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

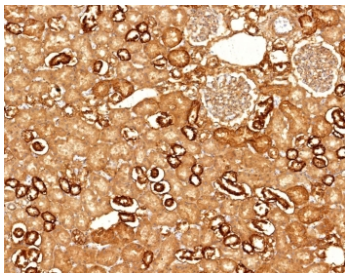
Recombinant RABBIT MONOCLONAL

Bulk quote request

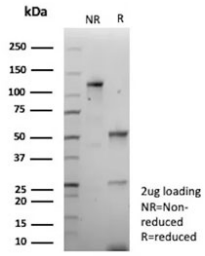
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDH16/9611R
Purity	Protein A/G affinity
UniProt	O75309
Localization	Cell Surface, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This recombinant Cadherin 16 antibody is available for research use only.



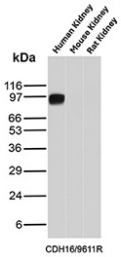
Recombinant Cadherin 16 Antibody Kidney WB. Western blot testing of human kidney tissue lysate using recombinant Cadherin 16 antibody (clone CDH16/9611R).



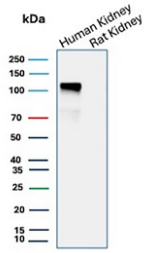
Recombinant Cadherin 16 Antibody Kidney IHC. Immunohistochemical analysis of Cadherin-16 / CDH16 expression in formalin-fixed, paraffin-embedded human kidney tissue using CDH16 antibody. Strong membranous and luminal staining is observed in renal tubular epithelial cells, with clear visualization of tubular structures and glomerular regions consistent with kidney-specific expression of CDH16.



SDS-PAGE analysis of purified, BSA-free recombinant Cadherin 16 antibody (clone CDH16/9611R) as confirmation of integrity and purity.



Cadherin 16 Antibody Human Kidney WB. Western blot analysis of Cadherin-16 / CDH16 expression across kidney tissue lysates using Cadherin 16 antibody clone CDH16/9611R. Lane 1: human kidney lysate, Lane 2: mouse kidney lysate, Lane 3: rat kidney lysate. A strong band is detected at approximately 95â€“110 kDa in human kidney lysate, consistent with the predicted molecular weight of Cadherin-16 (CDH16), with the slightly higher apparent migration reflecting glycosylation of this kidney-restricted adhesion protein. Minimal or no detectable signal is observed in mouse and rat kidney lysates under these conditions, supporting preferential detection in human tissue.



Cadherin 16 Antibody Human and Rat Kidney WB. Western blot analysis of Cadherin-16 / CDH16 expression in kidney tissue lysates using Cadherin 16 antibody clone CDH16/9611R. Lane 1: human kidney lysate, Lane 2: rat kidney lysate. A strong band is detected at approximately 100-110 kDa in human kidney lysate, consistent with the predicted molecular weight of Cadherin-16 (CDH16), with the slightly higher apparent migration reflecting glycosylation of this kidney-restricted adhesion protein. Minimal or no detectable signal is observed in rat kidney lysate under these conditions, indicating preferential detection in human tissue.

Description

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.

This antibody is part of a broader antibody panel offered by NSJ Bioreagents.

Application Notes

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

Immunogen

A recombinant fragment (within amino acids 350-550) of human CDH16 protein was used as the immunogen for the recombinant Cadherin 16 antibody.

Storage

Aliquot the recombinant Cadherin 16 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.