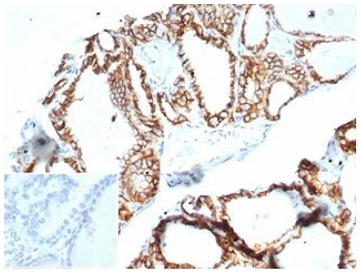
CDH16 Antibody / Cadherin 16 [clone CDH16/7028R] (V9477)

Catalog No.	Formulation	Size
V9477-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9477-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9477SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

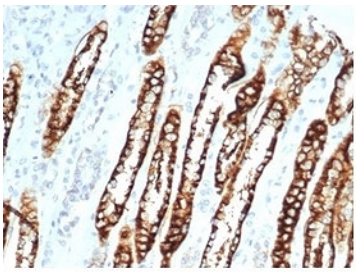
Recombinant RABBIT MONOCLONAL

Bulk quote request

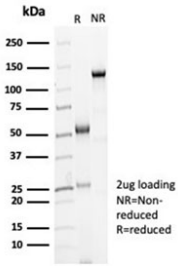
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	CDH16/7028R
Purity	Protein A affinity
UniProt	O75309
Localization	Cell Surface and Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml (Human) Western blot: 2-4ug/ml (Human/Rat)
Limitations	This CDH16 antibody is available for research use only.



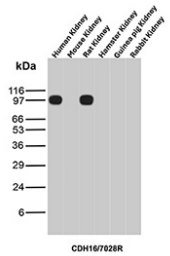
CDH16 Antibody Human Thyroid Tissue IHC. Immunohistochemistry staining of FFPE human thyroid tissue with recombinant CDH16 antibody (clone CHD16/7027R) at 2ug/ml in PBS for 30min RT. Negative control inset: PBS used instead of primary antibody to control for secondary Ab binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



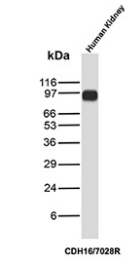
CDH16 Antibody Human Renal Cell Carcinoma Tissue IHC. Immunohistochemistry staining of FFPE human renal cell carcinoma tissue with recombinant CDH16 antibody (clone CHD16/7027R) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free recombinant CDH16 antibody (clone CDH16/7028R) as confirmation of integrity and purity.



CDH16 Antibody Multi-Species Kidney WB. Western blot analysis of Cadherin-16 / CDH16 expression across kidney tissue lysates from multiple species using CDH16 antibody clone CDH16/7028R. Lane 1: human kidney lysate, Lane 2: mouse kidney lysate, Lane 3: rat kidney lysate, Lane 4: hamster kidney lysate, Lane 5: guinea pig kidney lysate, Lane 6: rabbit kidney lysate. Bands are detected at approximately 95-110 kDa in human and rat kidney lysates, 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, hamster, guinea pig, and rabbit samples under these conditions, indicating selective species reactivity.



CDH16 Antibody Kidney Tissue WB. Western blot analysis of Cadherin-16 / CDH16 expression in human kidney tissue lysate using CDH16 antibody clone CDH16/7028R. Lane 1: human kidney lysate. A band is detected at approximately 95â€“110 kDa, consistent with the predicted molecular weight of Cadherin-16 (CDH16), with the slightly higher apparent migration reflecting glycosylation of this kidney-restricted adhesion protein. The strong signal in kidney tissue supports detection of CDH16 in renal epithelial cells and aligns with its role as a kidney-specific marker.

Description

This MAb recognizes a protein of 130kDa, identified as Ksp-cadherin/cadherin 16/CDH16. 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 CDH16 antibody should be determined by the researcher.

Immunogen

Recombinant human full-length protein was used as the immunogen for the recombinant CDH16 antibody.

Storage

Aliquot the CDH16 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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