

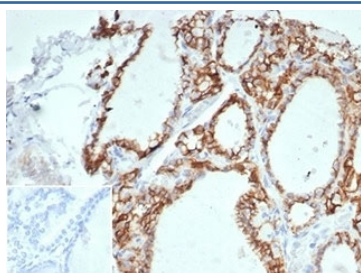
Recombinant Cadherin 16 Antibody / CDH16 [clone CDH16/7027R] (V9442)

Catalog No.	Formulation	Size
V9442-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9442-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9442SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

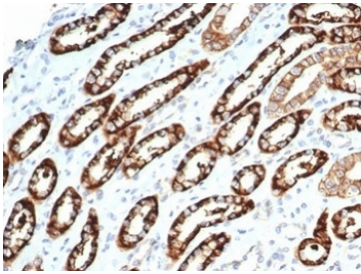
Recombinant **RABBIT MONOCLONAL**

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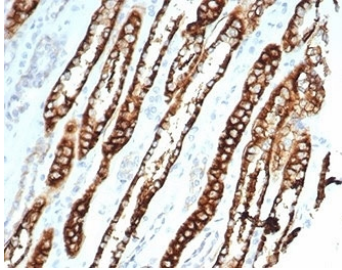
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDH16/7027R
Purity	Protein A affinity
UniProt	O75309
Localization	Cell surface, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This recombinant Cadherin 16 antibody is available for research use only.



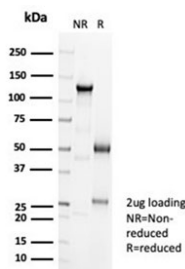
IHC staining of FFPE human thyroid tissue with recombinant Cadherin 16 antibody (clone CHD16/7027R) at 2ug/ml in PBS for 30min RT. Negative control inset: PBS used instead of primary antibody to control for secondary Ab binding. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



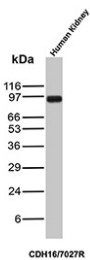
IHC staining of FFPE human kidney tissue with recombinant Cadherin 16 antibody (clone CDH16/7027R). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



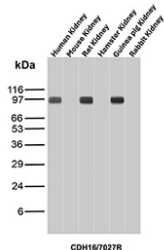
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SDS-PAGE analysis of purified, BSA-free recombinant Cadherin 16 antibody (clone CDH16/7027R) as confirmation of integrity and purity.



Western blot testing of human kidney tissue lysate with recombinant Cadherin 16 antibody. Expected molecular weight: 90~130 kDa.



Cadherin 16 Antibody Multi-Species Kidney WB. Western blot analysis of Cadherin-16 / CDH16 expression across kidney tissue lysates from multiple species using Cadherin 16 antibody clone CDH16/7027R. 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, rat, and hamster 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. Reduced or minimal signal is observed in mouse, guinea pig, and rabbit samples under these conditions, indicating species-dependent detection while maintaining strong reactivity in selected mammalian kidney tissues.

Description

This MAbs 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.

Application Notes

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

Immunogen

Recombinant human full-length protein was used as the immunogen for the recombinant Cadherin 16 antibody.

Storage

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