

ARG56181 anti-Cadherin 16 antibody [CDH16/1071]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [CDH16/1071] recognizes Cadherin 16
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	CDH16/1071
Isotype	IgG1, kappa
Target Name	Cadherin 16
Species	Human
Immunogen	Recombinant human Cadherin-16 protein.
Conjugation	Un-conjugated
Alternate Names	Kidney-specific cadherin; Ksp-cadherin; Cadherin-16

Application Instructions

Application table	Application	Dilution
	FACS	1 - 2 µg/10 ⁶ cells
	ICC/IF	2 - 5 µg/ml
	IHC-P	2 - 5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human kidney	
Observed Size	~ 105 kDa	

Properties

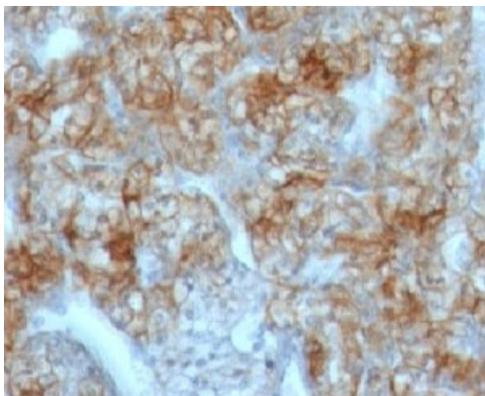
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide

Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

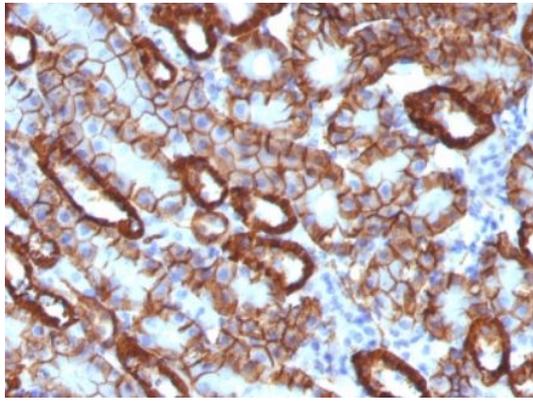
Database links	GeneID: 1014 Human GeneID: 12556 Mouse Swiss-port # O75309 Human Swiss-port # O88338 Mouse
Gene Symbol	CDH16
Gene Full Name	cadherin 16, KSP-cadherin
Background	This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. Mapped to a previously identified cluster of cadherin genes on chromosome 16q22.1, the gene localizes with superfamily members CDH1, CDH3, CDH5, CDH8 and CDH11. The protein consists of an extracellular domain containing 6 cadherin domains, a transmembrane region and a truncated cytoplasmic domain but lacks the prosequence and tripeptide HAV adhesion recognition sequence typical of most classical cadherins. Expression is exclusively in kidney, where the protein functions as the principal mediator of homotypic cellular recognition, playing a role in the morphogenic direction of tissue development. Alternatively spliced transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2011]
Function	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types. [UniProt]
Calculated Mw	90 kDa
Cellular Localization	Cell surface with some cytoplasmic

Images



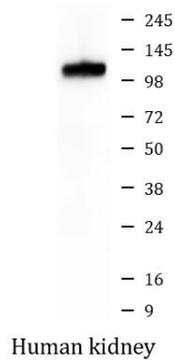
ARG56181 anti-Cadherin 16 antibody [CDH16/1071] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human renal cell carcinoma stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071].



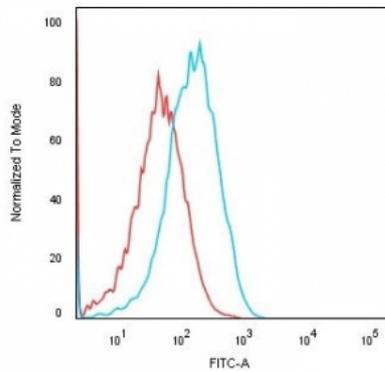
ARG56181 anti-Cadherin 16 antibody [CDH16/1071] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Mouse kidney tissue. Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. The tissue section was stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071].



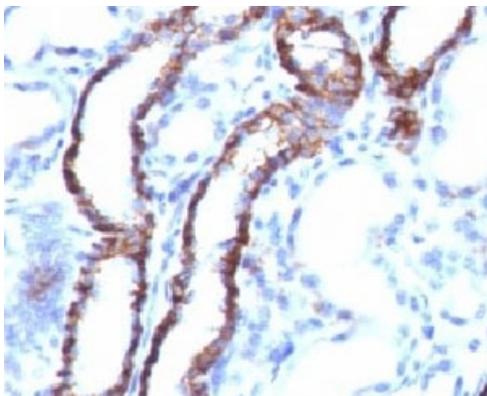
ARG56181 anti-Cadherin 16 antibody [CDH16/1071] WB image

Western blot: Human kidney lysate stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071].



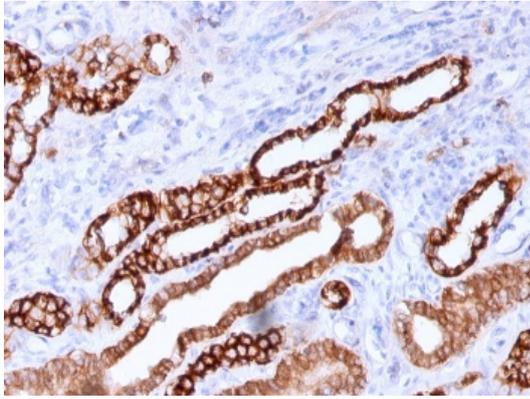
ARG56181 anti-Cadherin 16 antibody [CDH16/1071] FACS image

Flow Cytometry: HEK293 cells stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071] (blue); Isotype control (red).



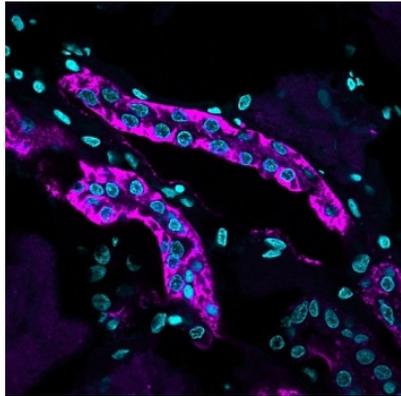
ARG56181 anti-Cadherin 16 antibody [CDH16/1071] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Rat kidney stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071].



ARG56181 anti-Cadherin 16 antibody [CDH16/1071] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human kidney tissue. Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. The tissue section was stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071].



ARG56181 anti-Cadherin 16 antibody [CDH16/1071] IF image

Immunofluorescence: Human kidney tissue stained with ARG56181 anti-Cadherin 16 antibody [CDH16/1071] (purple).