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CDH16 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13746b

Product Information

Application	WB, E
Primary Accession	O75309
Other Accession	NP_004053.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33734
Calculated MW	89923
Antigen Region	796-824

Additional Information

Gene ID	1014
Other Names	Cadherin-16, Kidney-specific cadherin, Ksp-cadherin, CDH16
Target/Specificity	This CDH16 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 796-824 amino acids from the C-terminal region of human CDH16.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CDH16 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CDH16
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.

Cellular Location Cell membrane; Single-pass type I membrane protein

Tissue Location Kidney specific.

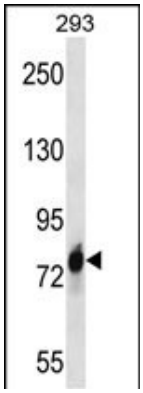
Background

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.

References

Thedieck, C., et al. J. Mol. Biol. 378(1):145-153(2008)
Kuehn, A., et al. Am. J. Surg. Pathol. 31(10):1528-1533(2007)
Thedieck, C., et al. Br. J. Cancer 92(11):2010-2017(2005)
Hishikawa, K., et al. Biochem. Biophys. Res. Commun. 328(1):288-291(2005)
Wendeler, M.W., et al. Exp. Cell Res. 294(2):345-355(2004)

Images



CDH16 Antibody (C-term) (Cat. #AP13746b) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the CDH16 antibody detected the CDH16 protein (arrow).