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MUPCDH Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14343a

Specification

MUPCDH Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9HBB8
Other Accession	NP_001165439.1, NP_068743.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**88223**
Antigen Region	**131-160**

MUPCDH Antibody (N-term) - Additional Information

Gene ID 53841

Other Names
Cadherin-related family member 5, Mu-protocadherin, Mucin and cadherin-like protein, CDHR5, MUCDHL, MUPCDH

Target/Specificity
This MUPCDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 131-160 amino acids from the N-terminal region of human MUPCDH.

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
MUPCDH Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

MUPCDH Antibody (N-term) - Protein Information

Name CDHR5 (HGNC:7521)

Function Intermicrovillar adhesion molecule that forms, via its extracellular domain, calcium-dependent heterophilic complexes with CDHR2 on adjacent microvilli. Thereby, controls the packing of microvilli at the apical membrane of epithelial cells. Through its cytoplasmic domain, interacts with microvillus cytoplasmic proteins to form the intermicrovillar adhesion complex/IMAC. This complex plays a central role in microvilli and epithelial brush border differentiation.

Cellular Location
Apical cell membrane; Single-pass type I membrane protein. Cell projection, microvillus membrane; Single-pass type I membrane protein

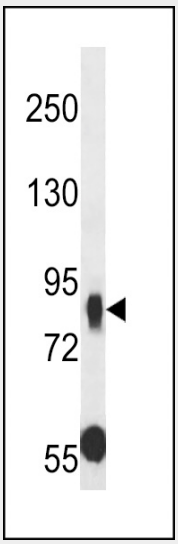
Tissue Location
Highest expression in kidney, liver, colon and small intestine. In kidney, expressed apically along brush border of proximal convoluted tubule but not in cortical collecting ducts Isoform 1 is expressed primarily in adult small intestine and colon Isoform 2 is highly expressed in fetal liver (PubMed:12167596) Expressed in duodenum with higher expression in enterocytes along the villus axis and lower expression in crypts (at protein level) (PubMed:24725409).

MUPCDH Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MUPCDH Antibody (N-term) - Images



MUPCDH Antibody (N-term) (Cat. #AP14343a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the MUPCDH antibody detected the MUPCDH protein (arrow).

MUPCDH Antibody (N-term) - Background

This gene is a novel mucin-like gene that is a member of the cadherin superfamily. While encoding nonpolymorphic tandem repeats rich in proline, serine and threonine similar to mucin proteins, the gene also contains sequence encoding calcium-binding motifs found in all cadherins. The role of the hybrid extracellular region and the specific function of this protein have not yet been determined. Alternatively spliced transcript variants encoding different isoforms have been described.

MUPCDH Antibody (N-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Goldberg, M., et al. Hum. Genet. 112(4):334-342(2003)
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