

MUPCDH Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14343a**Specification**

MUPCDH Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9HBB8](#)**MUPCDH Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 53841**Other Names**

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MUPCDH Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MUPCDH Antibody (N-term) Blocking Peptide - Images

MUPCDH Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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) Goldberg, M., et al. Am. J. Physiol. Renal Physiol. 283 (3), F454-F463 (2002) :Paris, M.J., et al. Genomics 69(2):196-202(2000)