Cadherin 17 Blocking Peptide

PRODUCT OVERVIEW

Product Name	Cadherin 17 (CDH17), Blocking Peptide
Full Product Name	Cadherin 17 Peptide
Product Gene Name	CDH17 blocking peptide
Product Synonym Names	BILL-cadherin; CAD17_HUMAN; Cadherin 17; cadherin, liver-intestine; Cadherin-17; CDH17; FLJ26931; Formerly Cadherin 16; Formerly CDH16; HPT-1 cadherin; human peptide transporter 1; Intestinal peptide-associated transporter HPT 1; LI-cadherin; Liver Cadherin; liver intestine cadherin antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	Cadherin 17 peptide (MBS542506) is used for blocking the activity of Cadherin 17 antibody (MBS541121)
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Molecular Weight	92,219 Da
OMIM	603017
Immunogen	Synthetic peptide taken within amino acid region 300-350 on human Cadherin-17 precursor protein.
Expression	Expressed in the gastrointestinal tract and pancreatic duct. Not detected in kidney, lung, liver, brain, adrenal gland and skin.
Determinant	N-epitope
Molecular Function	Calcium ion binding; proton-dependent oligopeptide secondary active transmembrane transporter activity
Subcellular Location	Cell membrane, Membrane
Applications Tested/Suitable for CDH17 blocking peptide	Immunodepletion, Immunocompetition
Application Notes for CDH17 blocking peptide	Western Blot: 1:500
Related Product Information for CDH17 blocking peptide	Antigenic Blocking Peptide Intestinal peptide-associated transporter HPT-1 Antibody N-epitope 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. LI-cadherin may have a role in the morphological organization of liver and intestine. Involved in intestinal peptide transport.
Other Notes	Small volumes of CDH17 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDH17 purchase	MBS542506 is a blocking peptide targeting CDH17. Also known as Cadherin 17 Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDH17. It may not necessarily be applicable to this product.

NCBI GI #	221316593
NCBI GeneID	1015

NCBI Accession #	NP_004054.3
UniProt Primary Accession #	Q12864
UniProt Secondary Accession #	Q15336; Q2M2E0
UniProt Related Accession #	Q12864
GenBank Nucleotide #	NM_004063.3
NCBI Official Full Name	cadherin-17
NCBI Official Synonym Full Names	cadherin 17
NCBI Official Symbol	CDH17
NCBI Official Synonym Symbols	HPT1; CDH16; HPT-1
UniProt Protein Name	Cadherin-17
UniProt Synonym Protein Names	Intestinal peptide-associated transporter HPT-1; Liver-intestine cadherin; LI-cadherin
Protein Family	Cadherin
UniProt Gene Name	CDH17
UniProt Synonym Gene Names	LI-cadherin
UniProt Entry Name	CAD17_HUMAN
NCBI Protein Information	cadherin-17
NCBI Summary for CDH17	This gene is a member of the cadherin superfamily, genes encoding calcium-dependent, membrane-associated glycoproteins. The encoded protein is cadherin-like, consisting of an extracellular region, containing 7 cadherin domains, and a transmembrane region but lacking the conserved cytoplasmic domain. The protein is a component of the gastrointestinal tract and pancreatic ducts, acting as an intestinal proton-dependent peptide transporter in the first step in oral absorption of many medically important peptide-based drugs. The protein may also play a role in the morphological organization of liver and intestine. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2009]
UniProt Comments for CDH17	CDH17: 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. LI-cadherin may have a role in the morphological organization of liver and intestine. Involved in intestinal peptide transport. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 8q22.1 Cellular Component: basolateral plasma membrane; cell surface; integral to membrane; plasma membrane Molecular Function: calcium ion binding; integrin binding; proton-dependent oligopeptide secondary active transmembrane transporter activity; transporter activity Biological Process: calcium-dependent cell-cell adhesion; cell adhesion; cell surface receptor linked signal transduction leading to integrin activation; germinal center B cell differentiation; homophilic cell adhesion; integrin-mediated signaling pathway; marginal zone B cell differentiation; oligopeptide transport; spleen development; transport
Research Articles on CDH17	**1.** Review/Meta-analysis: data reflect the role of CDH17 in tumor proliferation and metastasis among gastric cancer patients.
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