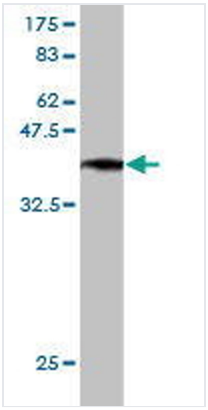
CDH17 Antibody – Mouse Monoclonal

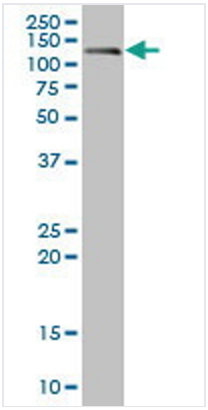
PRODUCT OVERVIEW

Product Name	CDH17, Monoclonal Antibody
Full Product Name	CDH17 (LI Cadherin, Cadherin-17, Intestinal Peptide-associated Transporter HPT-1, Liver-intestine Cadherin) (MaxLight 750)
Product Gene Name	anti-CDH17 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1H3
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDH17.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recov of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	92,219 Da
OMIM	603017
3D Structure	ModBase 3D Structure for Q12864
Immunogen	Partial recombinant corresponding to aa24-131 from human CDH17 with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EGKFSGPLKPMTFSIYEGQEPSQIIFQFKANPPAVTFELTGETDNIFVIEREGLLYYNRALDRETRSTHNLQVAALDANGIIVEGPVPITIEVKDINDNRPTFLQ
Conjugate	MaxLight750
Product Categories/Family for anti-CDH17 antibody	Antibodies; Cadherin
Applications Tested/Suitable for anti-CDH17 antibody	FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CDH17 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDH17 antibody	Cadherins are calcium-dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadh may thus contribute to the sorting of heterogeneous cell types. LI-cadherin may have a role in the morphological organization of liver and intestine. Invo in intestinal peptide transport.

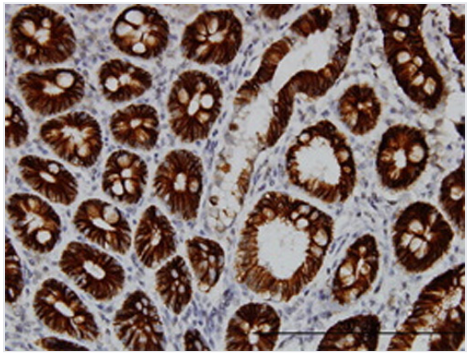
Product References and Citations for anti-CDH17 antibody	1. Comparison of cadherin-17 expression between primary colorectal adenocarcinomas and their corresponding metastases: the possibility of a diagno marker for detecting the primary site of metastatic tumour. Park JH, Seol JA, Choi HJ, Roh YH, Choi PJ, Lee KE, Roh MS.Histopathology. 2011 Jan;58(2):315-8. doi: 10.1111/j.1365-2559.2011.03746.x. 2. Cadherin-17 is a useful diagnostic marker for adenocarcinomas of the digestive system. Su MC, Yuan RH, Lin CY, Jeng YM.Mod Pathol. 2008 Nov;21(11):1379-86. Epub 2008 Jun 13.
Other Notes	Small volumes of anti-CDH17 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces 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	MBS6232071 is an antibody targeting CDH17. Also known as CDH17 (LI Cadherin, Cadherin-17, Intestinal Peptide-associated Transporter HPT-1, Live intestine Cadherin) (MaxLight 750). Reactive in Human. Host: Mouse.



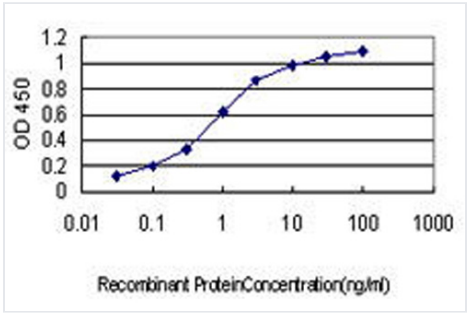
Western Blot (WB) of anti-CDH17 antibody
Western Blot detection against Immunogen (37.99kD).



Western Blot (WB) of anti-CDH17 antibody
Western Blot analysis of CDH17 expression in human intestinal wall using 124767.



Immunohistochemistry (IHC) of anti-CDH17 antibody
Immunoperoxidase of 124767 (3ug/ml) to CDH17 on formalin-fixed paraffin-embedded human small Intestine.



Testing Data of anti-CDH17 antibody
Detection limit for recombinant GST tagged CDH17 is ~0.03ng/ml as a capture antibody.

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
UniProt Primary Accession #	Q12864
UniProt Secondary Accession #	Q15336; Q2M2E0
UniProt Related Accession #	Q12864
GenBank Nucleotide #	NM_004063
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
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; integral to membrane; plasma membrane Molecular Function: transporter activity; calcium ion binding; proton-dependent oligopeptide secondary active transmembrane transporter activity Biological Process: intercellular junction assembly and maintenance; transport; calcium-dependent cell-cell adhesion; oligopeptide transport; homophilic cell adhesion; cell adhesion
Research Articles on CDH17	**1.** CDH17 and CLDN18 are useful target molecules. Their coupling can aid in the comprehensive detection and localization of gastric cancer metastases in vivo to overcome challenges associated with intratumoral heterogeneity.
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