

Mouse Anti-Human Cadherin 17, LI Cadherin Monoclonal Antibody

Cat. No. CAB11507MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Cadherin 17, LI Cadherin
Species	Human
Source	Mouse
Antigen Description	Cadherins (Calcium dependent adhesion molecules) are a class of transmembrane proteins. They play important roles in cell adhesion, ensuring that cells within tissues are bound together. They are dependent on calcium (Ca^{2+}) ions to function. Mature cadherin proteins are composed of a large N-terminal extracellular domain, a single membrane-spanning domain, and a small highly conserved C-terminal cytoplasmic domain. Type II (atypical) cadherins are defined based on their lack of an HAV cell adhesion recognition sequence specific to type I cadherins. It has been observed that cells containing a specific cadherin subtype tend to cluster together to the exclusion of other types, both in cell culture and during development. Cadherin-17, also known as Intestinal peptide-associated transporter HPT-1, Liver-intestine cadherin, LI-cadherin and CDH17, is a single-pass type I membrane protein which contains 7 cadherin domains. Cadherin-17 / CDH17 is expressed in the gastrointestinal tract and pancreatic duct. It is not detected in kidney, lung, liver, brain, adrenal gland and skin. The expression of Cadherin-17 / CDH17 is characteristic of the advanced gastric carcinoma that is associated with poor prognosis. Cadherin-17 / CDH17 is a structurally unique member of the cadherin superfamily.

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Specificity	Human CDH17 / Cadherin-17. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA. Human Cadherin-5; Human Cadherin-8; Human E-Cadherin; Human cell lysate (293 cell line)
Immunogen	Recombinant Human CDH17 / Cadherin-17 Protein
Isotype	Mouse IgG2a
Clone	5G7I6
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human CDH17 in WB. Using a DAB detection system, the detection limit for Human CDH17 is approximately 2 ng/lane under non-reducing conditions and 20 ng/lane under reducing conditions.ELISA: This antibody can be used at 0.5-1 µg/mL with the appropriate secondary reagents to detect Human CDH17. The detection limit for Human CDH17 is approximately 0.156 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human CDH17 / Cadherin-17. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70°C. Preservative-Free.Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be

disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CDH17 cadherin 17, LI cadherin (liver-intestine) [Homo sapiens]
Official Symbol	CDH17
Synonyms	CDH17; cadherin 17, LI cadherin (liver-intestine); cadherin-17; cadherin; HPT 1; LI cadherin; LI-cadherin; cadherin-16; HPT-1 cadherin; liver-intestine cadherin; human peptide transporter 1; intestinal peptide-associated transporter HPT-1; human intestinal peptide-associated transporter HPT-1; HPT1; CDH16; HPT-1; FLJ26931; MGC138218; MGC142024;
Gene ID	1015
mRNA Refseq	NM_001144663
Protein Refseq	NP_001138135
MIM	603017
UniProt ID	Q12864
Chromosome Location	8q22.1
Function	calcium ion binding; proton-dependent oligopeptide secondary active transmembrane transporter activity; transporter activity;

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