

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA