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36-2017: Anti-Cadherin 17 / LI Cadherin (Liver-Intestine Marker) Monoclonal Antibody (Clone: CDH17/2618)

Clonality :	Monoclonal
Clone Name :	CDH17/2618
Application :	FACS,IHC
Reactivity :	Human
Gene :	CDH17
Gene ID :	1015
Uniprot ID :	Q12864
Alternative Name :	BILL-cadherin; Cadherin-17; CDH17; HPT-1 cadherin; human intestinal peptide-associated transporter HPT-1; human peptide transporter 1 (HPT-1); Intestinal peptide-associated transporter HPT-1; LI-cadherin (liver-intestine); Liver Cadherin; Liver-intestine cadherin
Isotype :	Mouse IgG2b, kappa
Immunogen Information :	Recombinant fragment (around aa 242-418) of human Cadherin 17 protein (CDH17) (exact sequence is proprietary)

Description

It recognizes a protein of 120kDa, which is identified as Cadherin 17 (also known as LI Cadherin). The cadherins are a family of Calcium-dependent adhesion molecules that function to mediate cell-cell binding critical to the maintenance of tissue structure and morphogenesis. Cadherins each contain a large extracellular domain at the amino terminus, which is characterized by a series of five homologous repeats, the most distal of which is thought to be responsible for binding specificity. The relatively short carboxy terminal, intracellular domain interacts with a variety of cytoplasmic proteins, including beta-catenin, to regulate cadherin function. LI-cadherin (for liver-intestine-cadherin) expression is restricted to liver and intestine tissues and is specifically localized to the basolateral domain of hepatocytes and enterocytes.

Product Info

Amount :	20 µg / 100 µg
Content :	200µg/ml of Ab Purified from rabbit anti-serum by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.
Storage condition :	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.

Application Note

Flow Cytometry (1-2ug/million cells);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

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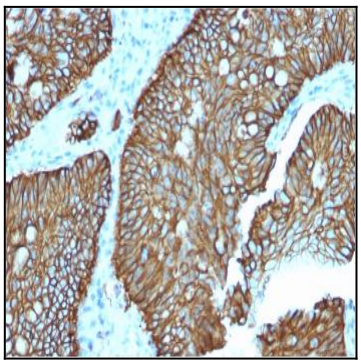

Fig.1: Formalin-fixed, paraffin-embedded human Colon stained with Cadherin 17 / CDH17 Mouse Monoclonal Antibody (CDH17/2618).

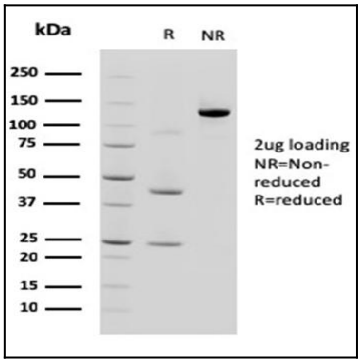

Fig. 2: SDS-PAGE Analysis
Purified Cadherin 17 / CDH17 Mouse Monoclonal Antibody (CDH17/2618). Confirmation of Purity and Integrity of Antibody

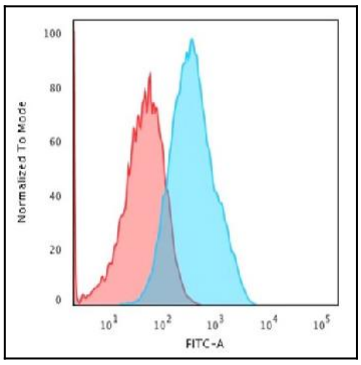

Fig. 3: Flow Cytometric Analysis of MCF-7 cells using Cadherin 17 / CDH17 Mouse Monoclonal Antibody (CDH17/2618) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

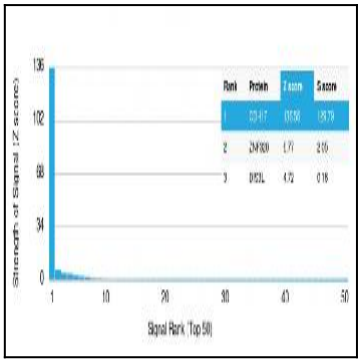

Fig. 4: Analysis of Protein Array containing more than 19,000 full-length human proteins using Cadherin 17 (CDH17) Mouse Monoclonal Antibody (CDH17/2618). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.