10320 Camino Santa Fe, Suite G
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CDH17 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO2004a

Specification

CDH17 Antibody - Product Information

Application	**E, WB, IHC**
Primary Accession	Q12864
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1**
Calculated MW	**92.2kDa KDa**

Description
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.

Immunogen
Purified recombinant fragment of human CDH17 (AA: extra(600-707)) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide.

CDH17 Antibody - Additional Information

Gene ID 1015

Other Names
Cadherin-17, Intestinal peptide-associated transporter HPT-1, Liver-intestine cadherin, LI-cadherin, CDH17

Dilution
E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CDH17 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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CDH17 Antibody - Protein Information

Name CDH17

Function
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.

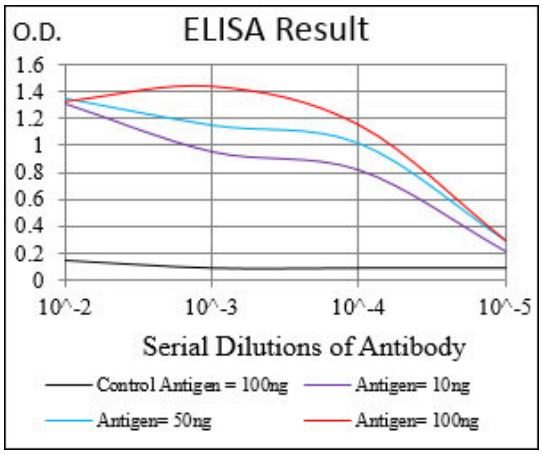
Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Expressed in the gastrointestinal tract and pancreatic duct. Not detected in kidney, lung, liver, brain, adrenal gland and skin.

CDH17 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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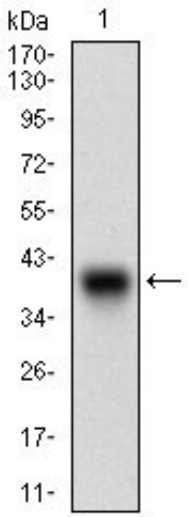

Figure 1: Western blot analysis using CDH17 mAb against human CDH17 (AA: extra(600-707)) recombinant protein. (Expected MW is 37.9 kDa)

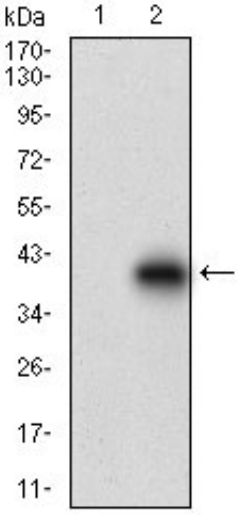

Figure 2: Western blot analysis using CDH17 mAb against HEK293 (1) and CDH17 (AA: extra(600-707))-hIgGFc transfected HEK293 (2) cell lysate.

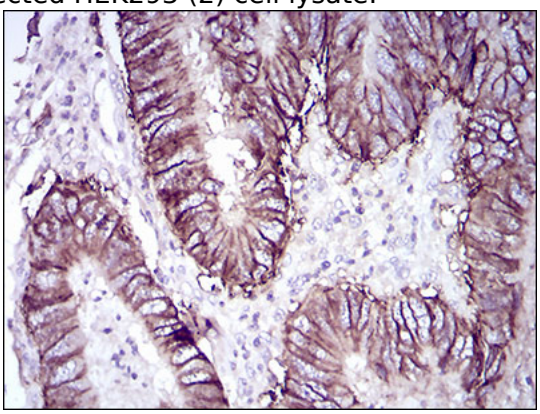

Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using CDH17 mouse mAb with DAB staining.

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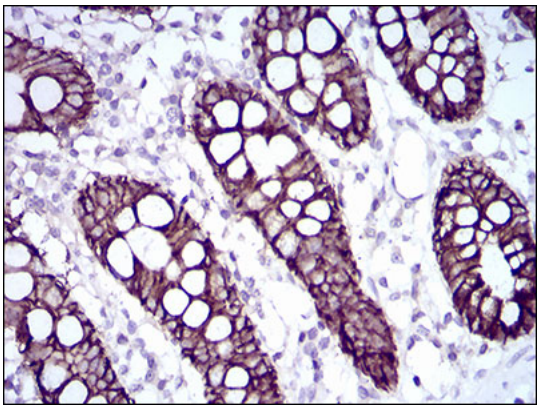

Figure 4: Immunohistochemical analysis of paraffin-embedded colon tissues using CDH17 mouse mAb with DAB staining.

CDH17 Antibody - References

1. Cancer Biol Ther. 2013 Mar;14(3):262-70.2. Mod Pathol. 2008 Nov;21(11):1379-86.