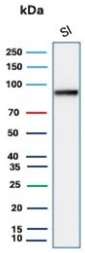
Cadherin 17 Antibody / CDH17 [clone CDH17/2612] (V5638)

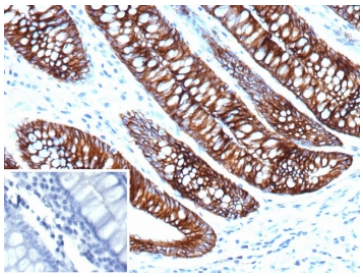
Catalog No.	Formulation	Size
V5638-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5638-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5638SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

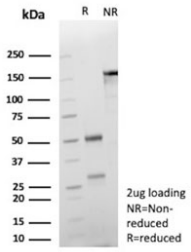
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	CDH17/2612
Purity	Protein G affinity
UniProt	Q12864
Localization	Cell membrane, cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 1-2ug/ml
Limitations	This Cadherin 17 antibody is available for research use only.



Western blot testing of human small intestine tissue lysate with Cadherin 17 antibody (clone CDH17/2612). Predicted molecular weight ~92 kDa but may be observed at higher molecular weights due to glycosylation.



Immunohistochemistry of Cadherin 17 antibody in human colon tissue. The mouse monoclonal clone CDH17/2612 demonstrates strong membranous HRP-DAB brown staining along the lateral borders of colonic epithelial cells, consistent with Cadherin 17 localization in intestinal epithelium. Staining highlights well-organized glandular structures with preserved apical-basal polarity, while surrounding stromal tissue shows minimal background signal. The negative control inset, using PBS in place of the primary antibody, shows no specific staining. Heat-induced epitope retrieval was performed by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 minutes followed by cooling prior to incubation.



SDS-PAGE analysis of purified, BSA-free Cadherin 17 antibody (clone CDH17/2612) as confirmation of integrity and purity.

Description

Cadherin 17 antibody recognizes Cadherin 17, a calcium-dependent cell adhesion molecule encoded by the CDH17 gene located on chromosome 8q22.1. Cadherin 17 antibody is developed to detect this intestinal-type cadherin that plays a role in epithelial adhesion and tissue organization. Cadherin 17 is also commonly referred to as Liver-intestine cadherin and LI-cadherin in the literature, and it is structurally distinct from classical cadherins because it lacks the conserved cytoplasmic catenin-binding domain. The protein localizes primarily to the plasma membrane of epithelial cells, where it contributes to intercellular adhesion in gastrointestinal tissues.

CDH17 antibody targets a member of the cadherin superfamily characterized by seven extracellular cadherin repeats and a short cytoplasmic tail. Unlike E-cadherin, Cadherin 17 mediates adhesion in a catenin-independent manner. It is strongly expressed in small intestine and colon epithelium and is also detected in pancreatic ducts and certain gastric epithelial cells. Because of its restricted normal tissue distribution and consistent expression in gastrointestinal epithelium, Cadherin-17 has become a useful marker in diagnostic and translational research.

Aberrant CDH17 expression has been reported in colorectal adenocarcinoma, gastric carcinoma, pancreatic adenocarcinoma, and other gastrointestinal malignancies. In tumor tissues, Cadherin 17 typically demonstrates strong membranous staining in well-differentiated epithelial tumor cells, reflecting preservation of intestinal differentiation. Reduced or altered expression patterns may correlate with tumor progression and dedifferentiation in certain contexts. CDH17 antibody is therefore frequently used to evaluate epithelial lineage and differentiation status in research models of gastrointestinal cancer.

Beyond adhesion, Cadherin 17 has been implicated in signaling pathways that influence cell proliferation and migration. Studies suggest that CDH17 may interact with intracellular signaling cascades contributing to tumor growth and survival, particularly in colorectal cancer. Its consistent expression in intestinal-type epithelium and gastrointestinal tumors supports its role as a lineage-associated adhesion molecule and potential biomarker.

This mouse monoclonal antibody clone CDH17/2612 targets Cadherin 17 for research applications involving epithelial differentiation, gastrointestinal biology, and cancer studies. By enabling detection of CDH17 expression and membranous localization, this Cadherin 17 antibody supports investigations into intestinal epithelial identity and tumor characterization at NSJ Bioreagents.

Application Notes

Optimal dilution of the Cadherin 17 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 242-418 from human Cadherin 17 protein was used as the immunogen for the Cadherin 17 antibody.

Storage

Aliquot the Cadherin 17 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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