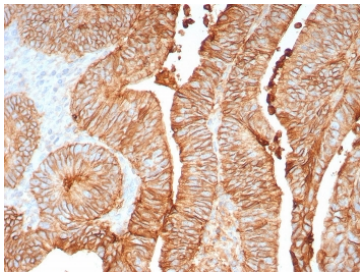
CDH17 Antibody Recombinant Rabbit mAb / Cadherin 17 [clone CDH17/8158R] (V5261)

Catalog No.	Formulation	Size
V5261-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5261-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5261SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDH17/8158R
Purity	Protein A affinity
UniProt	Q12864
Localization	Cell Surface, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This CDH17 antibody is available for research use only.



Immunohistochemistry of CDH17 antibody in human colon tissue. The recombinant rabbit mAb clone CDH17/8158R 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 crypt structures with preserved epithelial 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.

Description

CDH17 antibody recognizes Cadherin 17, a calcium-dependent cell adhesion molecule encoded by the CDH17 gene located on chromosome 8q22.1. CDH17 Antibody Recombinant Rabbit mAb is developed to detect this intestinal-type cadherin that mediates epithelial cell-cell adhesion in gastrointestinal tissues. Cadherin 17 is also widely known as Liver-intestine cadherin and LI-cadherin in the literature, and it differs structurally 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 supports calcium-dependent adhesion and maintenance of epithelial architecture.

Cadherin 17 antibody, also referred to as CDH17 antibody and LI-cadherin 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 independently of beta-catenin interaction. 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 distribution in normal tissues and consistent expression in intestinal epithelium, CDH17 antibody is widely used to evaluate gastrointestinal differentiation in research settings.

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 lineage characteristics. Altered or reduced expression patterns may correlate with tumor progression or dedifferentiation in certain contexts. CDH17 antibody is therefore frequently applied in studies of gastrointestinal tumor biology and epithelial lineage analysis.

Beyond its adhesive function, Cadherin 17 has been implicated in signaling pathways that influence cell proliferation and migration. Experimental data suggest that CDH17 may contribute to tumor growth and survival in colorectal cancer models. Its stable membranous localization in intestinal-type epithelium supports its use as a biomarker of gastrointestinal differentiation and epithelial identity.

This recombinant rabbit monoclonal antibody clone CDH17/8158R targets Cadherin 17 for research applications involving epithelial biology, intestinal differentiation, and cancer studies. By enabling detection of CDH17 expression and membranous localization, this Cadherin 17 antibody supports investigations into gastrointestinal epithelial identity at NSJ Bioreagents.

Application Notes

Optimal dilution of the CDH17 antibody recombinant rabbit mAb should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 242-418) from the human protein was used as the immunogen for the CDH17 antibody recombinant rabbit mAb.

Storage

Aliquot the CDH17 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.