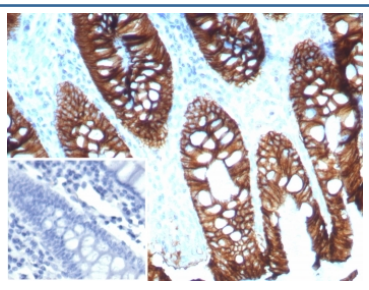
CDH17 Antibody Rabbit Monoclonal / Cadherin 17 [clone CDH17/8515R] (V5260)

Catalog No.	Formulation	Size
V5260-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5260-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5260SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

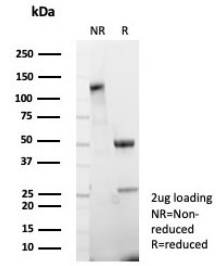
Recombinant RABBIT MONOCLONAL

Bulk quote request

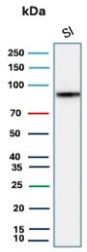
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	CDH17/8515R
Purity	Protein A affinity
UniProt	Q12864
Localization	Cell Surface, Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This CDH17 antibody is available for research use only.



Immunohistochemical analysis of CDH17 in FFPE human colon tissue using a CDH17 / Cadherin 17 antibody rabbit monoclonal (clone CDH17/8515R). Strong membranous staining is observed in intestinal epithelial cells lining colonic glands, consistent with Cadherin 17 expression in gastrointestinal epithelium. Heat-induced epitope retrieval was performed by boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9, for 20 minutes followed by cooling prior to staining. Inset shows a negative control section processed in parallel using PBS in place of the primary antibody, demonstrating minimal background staining.



SDS-PAGE analysis of purified, BSA-free CDH17 antibody (clone CDH17/8515R) as confirmation of integrity and purity.



Western blot testing of human small intestine lysate with CDH17 antibody rabbit monoclonal (clone CDH17/8515R). Predicted molecular weight ~92 kDa but may be observed at higher molecular weights due to glycosylation.

Description

CDH17 antibody targets Cadherin 17, also referred to as Liver-intestine cadherin, a calcium-dependent cell adhesion protein encoded by the CDH17 gene. Cadherin 17 is a non-classical member of the cadherin superfamily and is predominantly localized to the cell membrane of epithelial cells lining the gastrointestinal tract. Structurally, Cadherin 17 contains seven extracellular cadherin repeats and a short cytoplasmic domain that lacks a catenin-binding region, distinguishing it from classical cadherins such as E-cadherin.

Cadherin 17 plays an important role in epithelial organization, cell polarity, and maintenance of intestinal tissue architecture. CDH17 antibody, also commonly referred to as LI-cadherin antibody in the literature, is frequently used to investigate adhesion mechanisms in gastrointestinal epithelial cells. The calcium-dependent adhesive properties of Liver-intestine cadherin support stable epithelial cell-cell contacts while allowing dynamic tissue remodeling.

Expression of Cadherin 17 is highest in the small intestine and colon, with limited expression in most non-intestinal tissues. CDH17 antibody is therefore a valuable reagent for studying gastrointestinal epithelial differentiation and lineage specificity. Liver-intestine cadherin expression is well characterized in normal intestinal mucosa and is commonly retained in intestinal-type epithelial tumors, reinforcing its utility as a tissue-specific epithelial marker.

In cancer-related research, altered expression of Cadherin 17 has been associated with tumor progression and metastatic behavior in gastrointestinal malignancies. CDH17 antibody is widely applied as a diagnostic and classification marker for identifying tumors of intestinal origin and for distinguishing gastrointestinal-derived carcinomas from non-intestinal epithelial tumors.

This CDH17 antibody, clone CDH17/8515R, is designed to recognize Cadherin 17 protein in research applications. Clone CDH17/8515R supports detection of membrane-associated CDH17 expression and is suitable for studies focused on epithelial adhesion, gastrointestinal biology, and tumor characterization.

Application Notes

Optimal dilution of the CDH17 antibody rabbit monoclonal 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 rabbit monoclonal.

Storage

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