

# Villin Recombinant monoclonal antibody

Catalog Number: 86978-2-RR

## Basic Information

|                                                                |                                                     |                                                                            |
|----------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>86978-2-RR                           | <b>GenBank Accession Number:</b><br>BC017303        | <b>Purification Method:</b><br>Protein A purification                      |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>7429                       | <b>CloneNo.:</b><br>251823A8                                               |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P09327                        | <b>Recommended Dilutions:</b><br>IHC: 1:500-1:2000<br>IF/ICC: 1:250-1:1000 |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>villin 1                       |                                                                            |
| <b>Immunogen Catalog Number:</b><br>AG9610                     | <b>Calculated MW:</b><br>827aa,93 kDa; 826aa,93 kDa |                                                                            |

## Applications

|                                                   |                                                                                   |
|---------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>IHC, IF/ICC, ELISA | <b>Positive Controls:</b>                                                         |
| <b>Species Specificity:</b><br>human              | <b>IHC :</b> human colon tissue,<br><b>IF/ICC :</b> human small intestine tissue, |

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Villin 1 (VIL1) is a 95-kd F-actin bundling and severing protein and its expression is restricted to epithelial cells with a brush border, like epithelial cells of the intestinal mucosa, gall bladder, renal proximal tubules and ductuli efferentes of the testis. VIL1 has been reported to be an epithelial cell-specific anti-apoptotic protein, and to have an important function in regulating actin dynamics, cell morphology, epithelial-to-mesenchymal transitions, cell migration and cell survival. In addition, VIL1 is a useful diagnostic marker for various cancer, like cervical and endometrial adenocarcinomas, renal cell carcinoma. VIL1 was recently identified as a novel biomarker predictive for postoperative recurrence and poorer prognosis of high serum AFP associated HCC.

## Storage

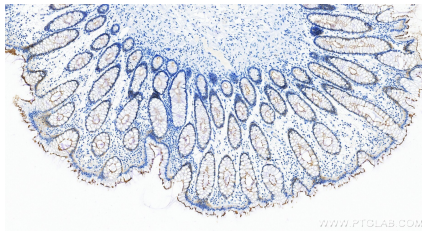
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

**\*\*\* 20ul sizes contain 0.1% BSA**

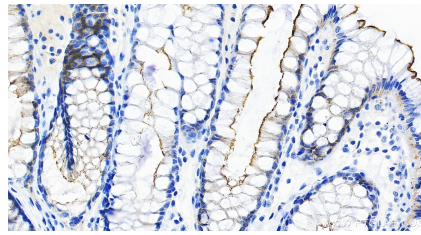
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

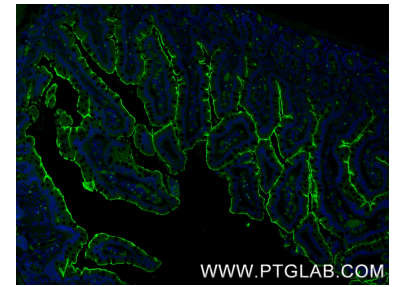
## Selected Validation Data



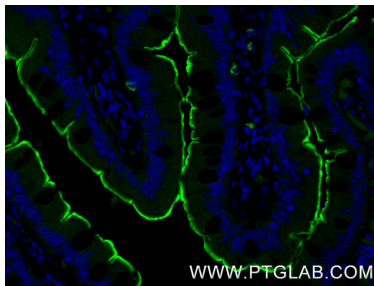
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 86978-2-RR (VIL1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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Immunofluorescent analysis of (4% PFA) fixed human small intestine tissue using VIL1 antibody (86978-2-RR, Clone: 251823A8) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed human small intestine tissue using VIL1 antibody (86978-2-RR, Clone: 251823A8) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).