

For Research Use Only

# Villin Monoclonal antibody

Catalog Number: 66096-1-Ig **10 Publications**



## Basic Information

<b>Catalog Number:</b> 66096-1-Ig	<b>GenBank Accession Number:</b> BC017303	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 480 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 7429	<b>CloneNo.:</b> 2B7B9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P09327	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:2500-1:10000 IF/ICC 1:10-1:100
<b>Isotype:</b> IgG1	<b>Full Name:</b> villin 1	
<b>Immunogen Catalog Number:</b> AG9637	<b>Calculated MW:</b> 827aa,93 kDa; 826aa,93 kDa	
	<b>Observed MW:</b> 93-95 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IP, ELISA	<b>Positive Controls:</b> WB : Human kidney, tissue IP : mouse kidney tissue, IHC : human colon tissue, IF/ICC : HepG2 cells,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse, sheep	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Villin 1 (VIL1) is a 95-kDa 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhang-Mei Peng	25337239	Int J Clin Exp Pathol	IHC
Shanshan Huang	35620578	Oxid Med Cell Longev	IHC
Serika Motoike	33712280	J Pharmacol Sci	IF, IHC

## Storage

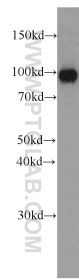
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

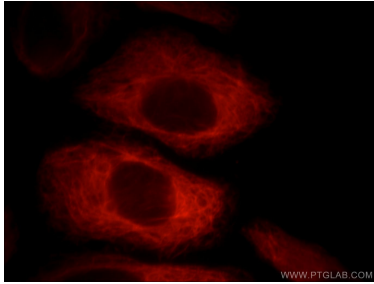
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

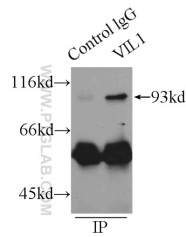
Selected Validation Data



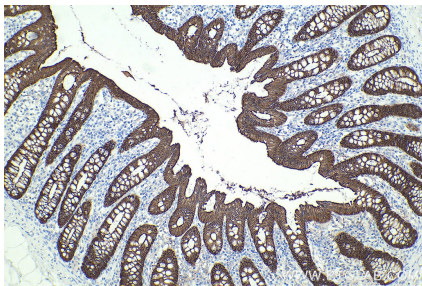
human kidney tissue were subjected to SDS PAGE followed by western blot with 66096-1-Ig (Villin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



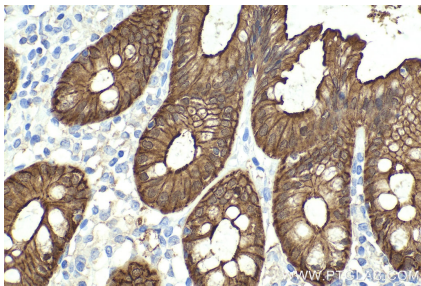
Immunofluorescent analysis of HepG2 cells using 66096-1-Ig (Villin antibody) at dilution of 1:25 and Rhodamine-Goat anti-Mouse IgG.



IP result of anti-Villin (IP:66096-1-Ig, 4ug; Detection:66096-1-Ig 1:1000) with mouse kidney tissue lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66096-1-Ig (Villin antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66096-1-Ig (Villin antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).