For Research Use Only

Villin Polyclonal antibody

Catalog Number:16488-1-AP 11 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16488-1-AP

Size:
700 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9610

GenBank Accession Number:
BC017303

GeneID (NCBI):
7429

UNIPROT ID:
P09327

Full Name:
villin 1

Calculated MW:
827aa,93 kDa; 826aa,93 kDa

Observed MW:
93 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:2500-1:10000
IF 1:50-1:500

Applications

Tested Applications:
FC, IF/ICC,IF-P, IHC, IP, WB, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, pig

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

Positive Controls:

WB : mouse kidney tissue, mouse colon tissue, mouse liver tissue

IP : mouse kidney tissue,

IHC : mouse small intestine tissue, human colon cancer tissue

IF : mouse small intestine tissue, COLO 320 cells

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 of 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

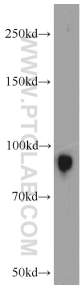
Author	Pubmed ID	Journal	Application
Qianjin Zhang	36436756	Cell Mol Gastroenterol Hepatol	IF
Zhixin Liu	33783986	Clin Transl Med	IF
Qi-Yue Yang	35696443	PLoS Pathog	IF

Storage

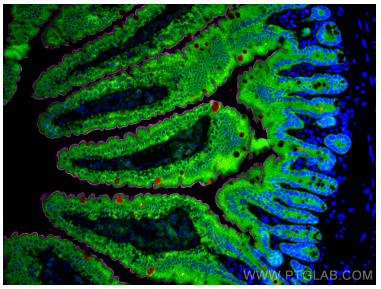
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

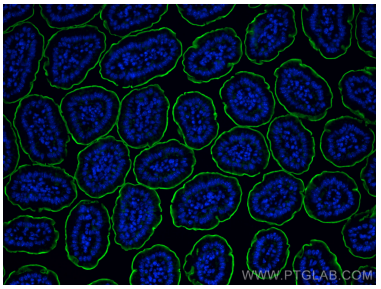
Selected Validation Data



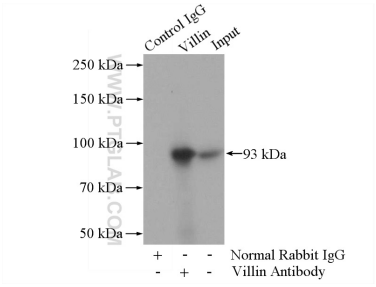
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 16488-1-AP (Villin antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



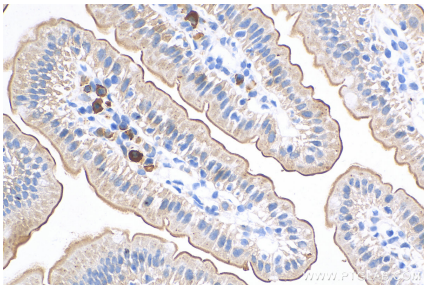
Immunofluorescent analysis of (4% PFA) fixed mouse small intestine tissue using Villin antibody (16488-1-AP) at dilution of 1:200 and CoraLite®647-conjugated AffiniPure F(ab, CoraLite® Plus 488 PIGR antibody (CL488-22024, green), CoraLite® Plus 594 ZG16 antibody (CL594-67389, Clone: 1A7B9, red).



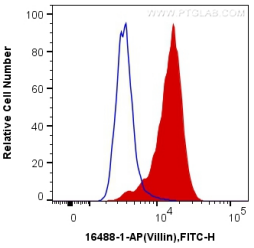
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse small intestine tissue using Villin antibody (16488-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Villin (IP:16488-1-AP, 4ug; Detection:16488-1-AP 1:300) with mouse kidney tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 16488-1-AP (Villin antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were intracellularly stained with 0.2 ug Anti-Human Villin (16488-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).