For Research Use Only

Villin Monoclonal antibody

Catalog Number:66096-1-Ig 11 Publications

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Basic Information

Catalog Number:
66096-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop and 480 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG9637

GenBank Accession Number:
BC017303

GeneID (NCBI):
7429

UNIPROT ID:
P09327

Full Name:
villin 1

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

Observed MW:
93-95 kDa

Purification Method:
Protein G purification

CloneNo.:
2B7B9

Recommended Dilutions:
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

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, sheep

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 : Human kidney, tissue

IP : mouse kidney tissue,

IHC : human colon tissue,

IF/ICC : HepG2 cells,

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 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
Zhang-Mei Peng	25337239	Int J Clin Exp Pathol	IHC
Shanshan Huang	35620578	Oxid Med Cell Longev	IHC
Hui-Hui Cao	25605255	Oncotarget	

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)
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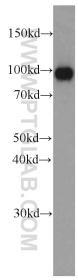
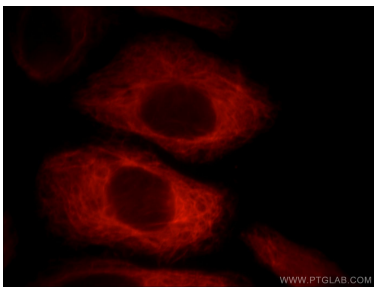
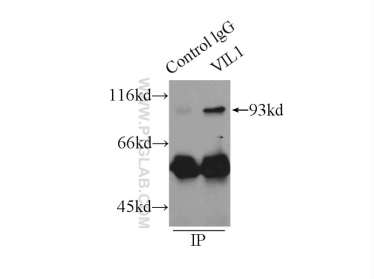
Selected Validation Data



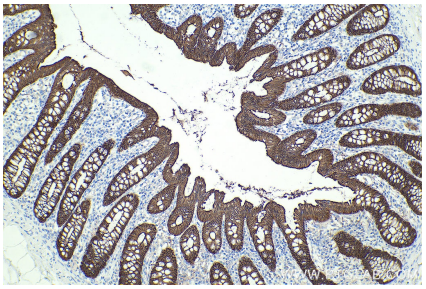
human kidney tissue were subjected to SDS PAGE followed by western blot with 66096-1-Ig (Villin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



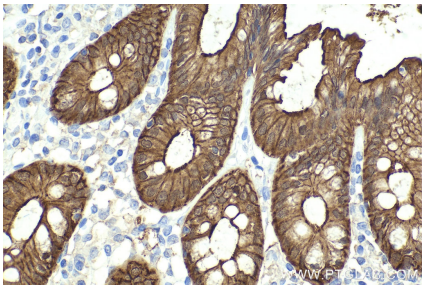
Immunofluorescent analysis of HepG2 cells using 66096-1-Ig (Villin antibody) at dilution of 1:25 and Rhodamine-Goat anti-Mouse IgG.



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).