villin1 Rabbit mAb

Catalog No: #49748

Package Size: #49748-1 50ul #49748-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

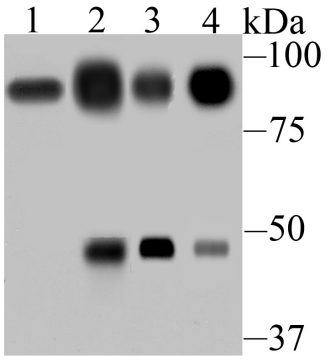
Description

Product Name	villin1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU34-75
Purification	ProA affinity purified
Applications	WB,ICC,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	D2S1471 antibody OTTHUMP00000164145 antibody VIL antibody VIL1 antibody VILI_HUMAN antibody Villin 1 antibody Villin-1 antibody Villin1 antibody
Accession No.	Swiss-Prot#:P09327
Uniprot	P09327
GeneID	7429;
Calculated MW	92/46 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

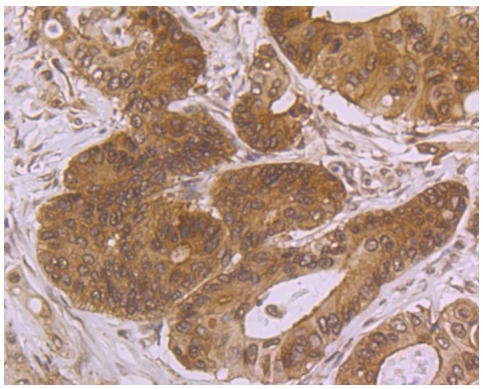
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:500-1:2,000FC: 1:50-1:100

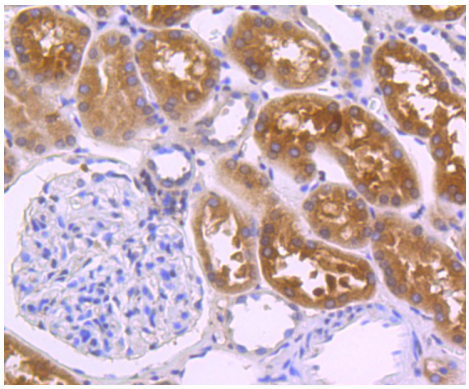
Images



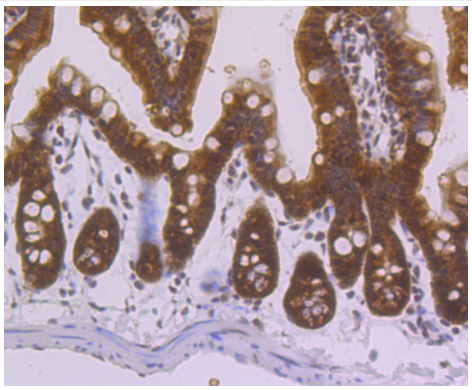
Western blot analysis of Villin1 on different tissue lysates using anti-Villin1 antibody at 1/500 dilution.
Positive control:
Lane 1: Mouse colon
Lane 2: Human small intestine
Lane 3: Human colon
Lane 4: Rat kidney



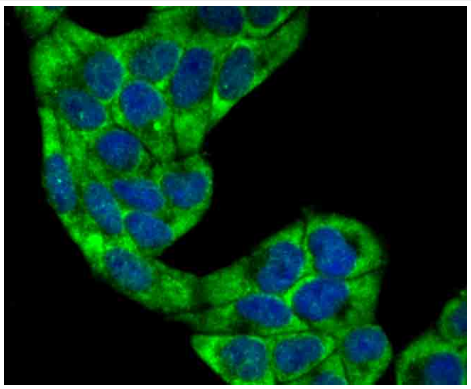
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Villin1 antibody. Counter stained with hematoxylin.



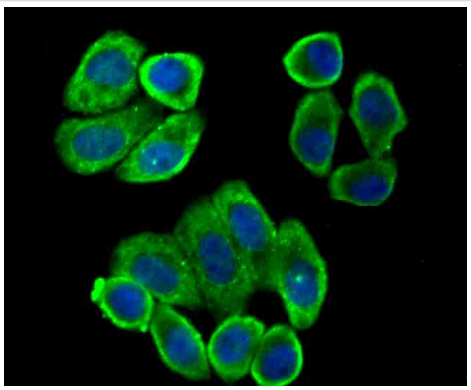
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Villin1 antibody. Counter stained with hematoxylin.



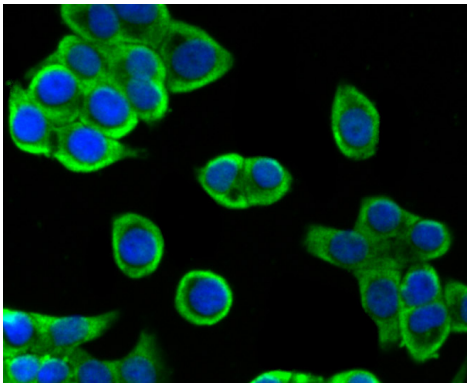
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-Villin1 antibody. Counter stained with hematoxylin.



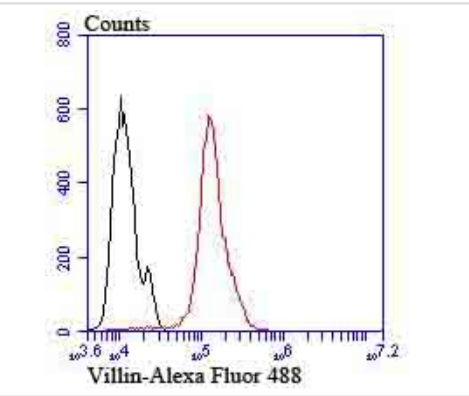
ICC staining Villin1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Villin1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Villin1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Villin1 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Caldesmon, Filamin 1, Nebulin and Villin are differentially expressed and regulated Actin binding proteins. Both muscular (CDh) and non-muscular (CDl) forms of Caldesmon have been identified and each has been shown to bind to Actin as well as to calmodulin and myosin. CDh is expressed predominantly on thin filaments in smooth muscle, whereas CDl is widely expressed in non-muscle tissues and cells. Filamin 1, which is ubiquitously expressed and exists as a homodimer, functions to crosslink Actin to filaments. Nebulin is a large filamentous protein specific to muscle tissue that may function as a ruler for filament length. Several isoforms of Nebulin are produced by alternative exon usage. Villin is Ca2+-regulated and is the major structural component of the brush border of absorptive cells.

References

Note: This product is for in vitro research use only