Anti-Villin1 Antibody

IRS243RB

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	mIHC
Molecular Wt:	Predicted band size: 93 kDa

Description: 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.

Immunogen: Synthetic peptide within Human Villin1 aa 176-225 / 827.

Positive control: Mouse small intestine tissue.

Subcellular location: Cytoskeleton.

Database links: SwissProt: Q62468 Mouse

Recommended Dilutions:

mIHC	1:100

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

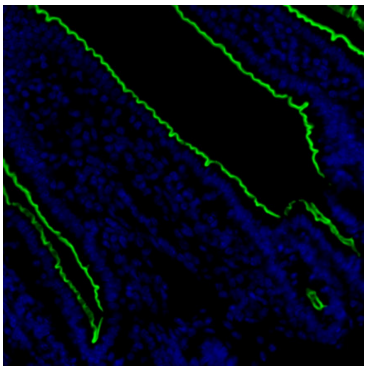

Fig1: mIHC analysis of mouse small intestine tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-Villin1 antibody (IRS243RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95℃. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

Background References

1. Northrop J et al. Different calcium dependence of the capping and cutting activities of villin. J Biol Chem 261:9274-9281 (1986).
2. Zhai L et al. Tyrosine phosphorylation of villin regulates the organization of the actin cytoskeleton. J Biol Chem 276:36163-36167 (2001).