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Datasheet for ABIN967920 anti-Villin 1 antibody (AA 1-827)

2 Images

5 Publications



Overview

Quantity:	50 µg
Target:	Villin 1 (VIL1)
Binding Specificity:	AA 1-827
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Villin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Cow Villin aa. 1-827
Clone:	12-Villin
lsotype:	lgG1
Cross-Reactivity:	Human
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details

Purification:

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Concentration:

Preservative:

Buffer:

Target:	Villin 1 (VIL1)
Alternative Name:	Villin (VIL1 Products)
Background:	The isolated intestinal microvillus cytoskeleton (core) consists of four major proteins: actin,
	villin, fimbrin, and brush border myosin-I. These proteins can assemble in vitro into structures
	resembling native microvillus cores. Of these components, villin, and brush border myosin-I
	show tissue-specific expression, so they may be involved in the morphogenesis of intestinal
	microvilli. Found in association with the microvillar actin bundles of the intestinal brush border,
	villin is a 95 kDa protein composed of two very similar domains of approximately 44 kDa each,
	the core, and a C-terminal domain of 8 kDa, the headpiece. The core has been shown to contair
	villin's Ca[2+] regulated capping, nucleating, and severing activities, but it cannot induce the
	formation of microfilament bundles without the headpiece. Villin is a useful differentiation
	marker of early embryogenesis and may be useful in diagnosis and follow-up of colorectal
	cancers. It has been demonstrated that villin is necessary for both the cytoskeletal and
	membrane protein organization of a functional brush border. This antibody is routinely tested
	by western blot analysis.
Molecular Weight:	95 kDa
Pathways:	EGFR Signaling Pathway, Regulation of Actin Filament Polymerization
Application Details	
Comment:	Related Products: ABIN968551, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid

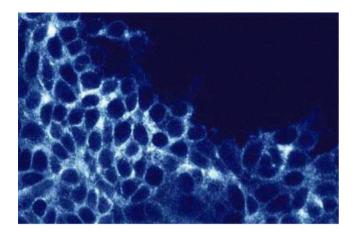
Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

250 µg/mL

Sodium azide

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Handling	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Nies, König, Cui, Brom, Spring, Keppler: "Structural requirements for the apical sorting of human
	multidrug resistance protein 2 (ABCC2)." in: European journal of biochemistry / FEBS, Vol. 269,
	Issue 7, pp. 1866-76, (2002) (PubMed).
	Zhai, Zhao, Panebra, Guerrerio, Khurana: "Tyrosine phosphorylation of villin regulates the
	organization of the actin cytoskeleton." in: The Journal of biological chemistry, Vol. 276, Issue
	39, pp. 36163-7, (2001) (PubMed).
	McSwine, Musch, Bookstein, Xie, Rao, Chang: "Regulation of apical membrane Na+/H+
	exchangers NHE2 and NHE3 in intestinal epithelial cell line C2/bbe." in: The American journal
	of physiology, Vol. 275, Issue 3 Pt 1, pp. C693-701, (1998) (PubMed).
	Friederich, Vancompernolle, Huet, Goethals, Finidori, Vandekerckhove, Louvard: "An actin-
	binding site containing a conserved motif of charged amino acid residues is essential for the
	morphogenic effect of villin." in: Cell , Vol. 70, Issue 1, pp. 81-92, (1992) (PubMed).
	Friederich, Pringault, Arpin, Louvard: "From the structure to the function of villin, an actin-binding
	protein of the brush border." in: BioEssays : news and reviews in molecular, cellular and
	developmental biology, Vol. 12, Issue 9, pp. 403-8, (1991) (PubMed).



Immunofluorescence

Image 1. Immunofluorescent staining of HCT-8 cells



Western Blotting

Image 2. Western blot analysis of Villin on HCT-8 lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-Villin antibody.

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