

Product Name: Villin-1 (1Y7) Rabbit Monoclonal Antibody
Catalog #: AMRe19796

Summary

Production Name	Villin-1 (1Y7) Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name	VIL1
Alternative Names	VIL; VIL1; Villin1;
Gene ID	7429.0
SwissProt ID	P09327.A synthetic peptide of human Villin

Application

Dilution Ratio	WB: 1:2000-1:10000
Molecular Weight	93kDa

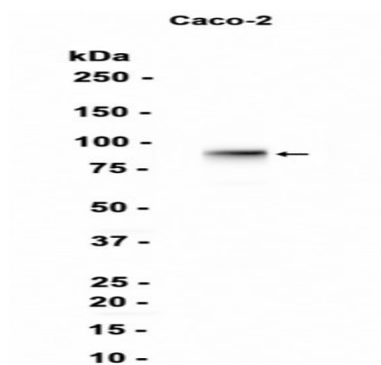
Background

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Ca²⁺-regulated actin-binding protein. Epithelial cell-specific Ca²⁺-regulated actin-modifying protein that modulates the reorganization of microvillar actin filaments. Plays a role in the actin nucleation, actin filament bundle assembly, actin filament capping and severing. Binds phosphatidylinositol 4,5-bisphosphate (PIP₂) and lysophosphatidic acid (LPA); binds LPA with higher affinity than PIP₂. Binding to LPA increases its phosphorylation by SRC and inhibits all actin-modifying activities. Binding to PIP₂ inhibits actin-capping and -severing activities but enhances actin-bundling activity. Regulates the intestinal epithelial cell morphology, cell invasion, cell migration and apoptosis. Protects against apoptosis induced by dextran sodium sulfate (DSS) in the gastrointestinal epithelium. Appears to regulate cell death by maintaining mitochondrial integrity. Enhances hepatocyte growth factor (HGF)-induced epithelial cell motility, chemotaxis and wound repair. Upon *S.flexneri* cell infection, its actin-severing activity enhances actin-based motility of the bacteria and plays a role during the dissemination.

Research Area

Image Data



Western blot analysis of extracts from Caco-2 cells using RM6031 at 1:1000.

Note

For research use only.