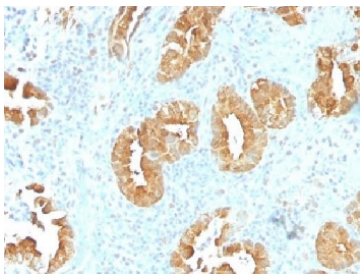
Villin Antibody for WB / VIL1 Western Blot Antibody [clone VIL1/1314] (V3357)

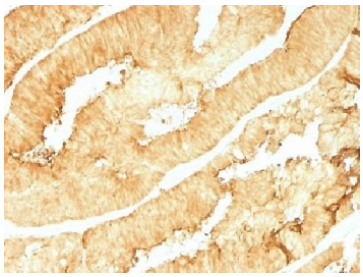
Catalog No.	Formulation	Size
V3357-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3357-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3357SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

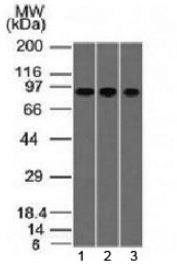
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	VIL1/1314
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
UniProt	P09327
Localization	Cytoplasmic and cell surface
Applications	Western Blot : 1-2ug/ml for 60 min at RT Immunohistochemistry (FFPE) : 0.25-0.5ug/ml for 30 min at RT
Limitations	This Villin antibody is available for research use only.



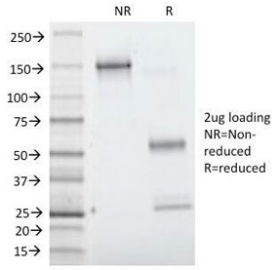
IHC testing of FFPE human rectum tissue with Villin antibody (clone VIL1/1314). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



IHC testing of FFPE human colon with Villin antibody (clone VIL1/1314). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



Villin Antibody for WB. Western blot analysis of VIL1 Western Blot Antibody in human epithelial-derived cell lysates using mouse monoclonal clone VIL1/1314. Lane 1: A549 lysate, Lane 2: HepG2 lysate, Lane 3: HCT-116 lysate. A band is detected at approximately 93 kDa, consistent with the predicted molecular weight of Villin-1 / VIL1. The consistent signal across these lysates supports the use of this antibody for western blot detection of brush border-associated Villin protein in epithelial biology studies.



SDS-PAGE Analysis of Purified, BSA-Free Villin Antibody for WB / VIL1 Western Blot Antibody (clone VIL1/1314). Confirmation of Integrity and Purity of the Antibody.

Description

Villin-1 (VIL1) is an actin-binding, calcium-regulated cytoskeletal protein localized to the apical brush border of epithelial cells, where it plays a key role in microvillus organization and epithelial polarity. Villin Antibody for WB (clone VIL1/1314) is optimized for protein detection in denatured lysates, and this VIL1 Western Blot Antibody is particularly useful for researchers analyzing epithelial protein expression through immunoblot workflows. Villin antibody, also known as Villin-1 antibody or VIL1 antibody, is widely used to confirm epithelial lineage and to evaluate brush border-associated cytoskeletal proteins in western blot experiments.

What differentiates a Villin Antibody for WB from general Villin reagents is its performance in western blot conditions where band clarity, reproducibility, and molecular weight accuracy are critical. Researchers searching for a VIL1 Western Blot Antibody are typically focused on detecting a clean ~93 kDa band and comparing signal intensity across epithelial and non-epithelial lysates. Clone VIL1/1314 supports these workflows by providing consistent band detection across multiple epithelial-derived samples, making it well suited for studies involving colon cancer cell lines, intestinal tissue lysates, and epithelial differentiation models. This strong WB positioning clearly separates it from IHC or IF-focused Villin antibodies that prioritize spatial localization rather than protein band resolution.

In western blot analysis, Villin is commonly detected as a prominent band at the expected molecular weight, while additional lower molecular weight bands may appear depending on sample preparation, proteolytic processing, or cytoskeletal turnover. These secondary bands can provide useful biological insight when comparing differentiated versus dedifferentiated epithelial states or evaluating tissue integrity under experimental conditions. A VIL1 Western Blot Antibody is therefore especially valuable in studies where band interpretation, lysate quality, and protein stability are central to the experimental design rather than secondary considerations.

Villin is highly expressed in gastrointestinal epithelium and serves as a well-established biochemical marker of epithelial origin in western blot workflows. Detection of Villin in lysates is frequently used to validate epithelial enrichment, confirm brush border protein expression, and assess structural integrity of polarized cells. This mouse monoclonal antibody

provides reliable recognition of Villin in denatured protein samples, making it a strong choice for researchers prioritizing western blot performance, reproducibility, and accurate interpretation of epithelial cytoskeletal protein expression.

Application Notes

Titration of the Villin Antibody for WB / VIL1 Western Blot Antibody may be required for optimal performance.

Immunogen

Amino acids 179-311 from the human protein were used as the immunogen for this Villin Antibody for WB / VIL1 Western Blot Antibody.

Storage

Store the Villin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

Villin-1 antibody, VIL1 antibody, Villin 1 antibody, Villin antibody