

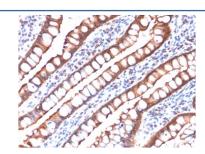
Recombinant Villin Antibody / VIL1 [clone rVIL1/1325] (V3566)

Catalog No.	Formulation	Size
V3566-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3566-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3566SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3566IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

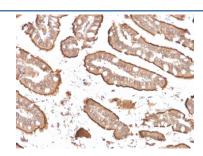
Recombinant MOUSE MONOCLONAL

Bulk quote request

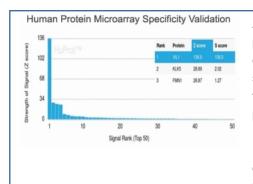
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rVIL1/1325
Purity	Protein G affinity chromatography
UniProt	P09327
Localization	Cytoplasmic and cell surface
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This recombinant Villin antibody is available for research use only.



IHC testing of FFPE human small intestine carcinoma with recombinant Villin antibody (clone rVIL1/1325). Required HIER: boil tissue sections in pH9 EDTA buffer, for 10-20 min followed by cooling at RT for 20 min.



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Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant Villin antibody (clone rVIL1/1325). These results demonstrate the foremost specificity of the rVIL1/1325 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

Description

Recombinant Villin antibody is a specialized reagent for detecting villin 1, an actin binding protein encoded by the VIL1 gene. Villin is expressed predominantly in epithelial cells of the gastrointestinal and renal tracts, where it localizes to the brush border of absorptive cells. It plays key roles in actin filament organization, cytoskeletal remodeling, and epithelial polarity. Because of its restricted expression, villin is a useful marker for intestinal and renal epithelia.

Villin has multifunctional effects on actin dynamics. It can sever, cap, and bundle actin filaments, enabling it to control microvilli structure in absorptive epithelia. By regulating actin organization, villin contributes to epithelial morphology and the absorptive capacity of the intestine and kidney. Altered villin expression is linked to epithelial injury, inflammatory bowel disease, and cancer progression.

The Recombinant Villin antibody clone rVIL1/1325 provides reliable recognition of this actin regulatory protein. Recombinant production ensures consistent performance across batches, minimizing variability in experimental results. Clone rVIL1/1325 has been applied in gastrointestinal research to study epithelial differentiation, in nephrology to examine brush border organization, and in oncology to investigate epithelial tumor biology. Its specificity makes it a dependable tool across research areas.

Research using clone rVIL1/1325 has clarified how villin expression marks intestinal and renal epithelia. In diagnostic pathology, villin is often used to identify gastrointestinal origin in metastatic carcinomas. In basic science, it continues to inform understanding of how actin cytoskeleton regulation supports epithelial structure and function. This antibody contributes to both fundamental and applied investigations.

NSJ Bioreagents supplies this Recombinant Villin antibody to enable high quality research into epithelial biology and disease. The protein is also referenced as VIL1 antibody, brush border actin binding protein antibody, intestinal epithelial marker antibody, and villin 1 cytoskeletal regulator antibody. These alternate terms illustrate the different contexts in which villin is studied.

Application Notes

The stated application concentrations are suggested starting points. Titration of the recombinant Villin antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if

required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

Amino acids 179-311 from the human protein were used as the immunogen for this recombinant Villin antibody.

Storage

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