

# Antibodies

## Anti-Human Villin 1 Antibody, Polyclonal

Rabbit polyclonal antibody against human villin 1



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Catalog #100-1066

100 µL

## Product Description

This rabbit polyclonal antibody reacts with villin 1, a calcium-regulated protein expressed in epithelial cells. It is organized into six conserved domains, which make up the villin core, and a C-terminal headpiece domain, which contains an F-actin binding site. Villin 1 is an important player in the reorganization of microvillar actin filaments and is involved in actin nucleation, polymerization, and severing. It is a key component in the growth and development of intestinal epithelial cells, regulating cell morphology, growth, and apoptosis. Villin 1 has been implicated as a predictive factor in some adenocarcinomas of the endocervix, colon, and lungs. Abnormal villin expression has also been associated with biliary atresia and cholestasis.

Target Antigen Name:	Villin 1
Alternative Names:	D2S1471, VIL1, VIL
Gene ID:	7429
Species Reactivity:	Human
Host Species:	Rabbit
Clonality:	Polyclonal
Clone:	Not applicable
Isotype:	Not applicable
Immunogen:	Full-length fusion protein
Conjugate:	Unconjugated

## Applications

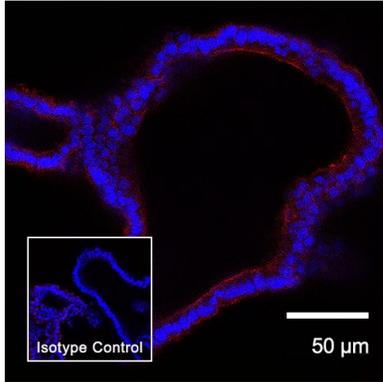
Verified:	ICC/IF
Reported:	ICC/IF, IHC, WB
Special Applications:	This antibody clone has been verified for labeling villin 1-positive enterocytes in human intestinal organoids grown using the STEMdiff™ Intestinal Organoid Kit (Catalog #05140).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

Formulation:	Phosphate-buffered saline, pH 7.4, containing 0.05% sodium azide and 40% glycerol
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at -20°C when stored undiluted. Stable until expiry date (EXP) on label.
Directions for Use:	The suggested use of this antibody is: ICC/IF, 2.5 µg/mL; IHC, 1:25 - 1:100; WB, 1:200 - 1:1000. It is recommended that the antibody be titrated for optimal performance for each application.

## Data



H9 human intestinal organoids were cultured using STEMdiff™ Intestinal Organoid Kit (Catalog # 05140), then fixed and labeled with Anti-Human Villin 1 Antibody, Polyclonal, followed by Goat Anti-Rabbit IgG (H+L) Antibody, Polyclonal, iFluor™ 568 (Catalog #100-1083). Nuclei were counter-stained with DAPI (blue). Inset shows cells labeled with a rabbit IgG isotype control antibody, followed by Goat Anti-Rabbit IgG (H+L) Antibody, Polyclonal, iFluor™ 568 (with DAPI staining).

## Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies), or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

1. Jing B et al. (2020) Establishment and application of peristaltic human gut-vessel microsystem for studying host-microbial interaction. *Front Bioeng Biotechnol* 8: 272. (ICC/IF)
2. Jalili-Firoozinezhad S et al. (2018) Modeling radiation injury-induced cell death and countermeasure drug responses in a human Gut-on-a-Chip. *Cell Death Dis* 9(2): 223. (IF)
3. Paredes J et al. (2018) Establishment of three novel cell lines derived from African American patients with colorectal carcinoma: A unique tool for assessing racial health disparity. *Int J Oncol* 53(4): 1516–28. (WB)
4. Shillingford NM et al. (2015). Villin immunohistochemistry is a reliable method for diagnosing microvillus inclusion disease. *Am J Surg Pathol* 39(2): 245–50. (IHC)

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