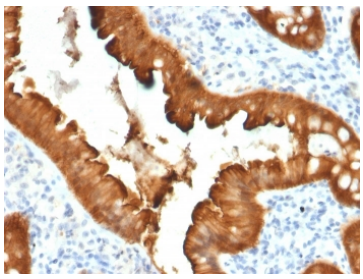
# Villin Antibody / Apical Membrane Marker Antibody [clone VIL1/2376] (V8157)

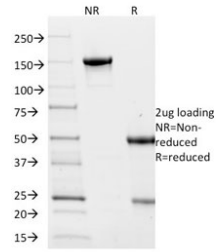
| Catalog No. | Formulation | Size |
|---|---|---|
| V8157-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8157-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8157SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

## Bulk quote request

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | VIL1/2376 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P09327 |
| **Localization** | Cell surface, cytoplasmic |
| **Applications** | Immunohistochemistry (FFPE) : 1-2ug/ml |
| **Limitations** | This Villin antibody is available for research use only. |



Villin Antibody. Immunohistochemistry analysis of Villin-1 (VIL1) in FFPE human colon carcinoma using Villin Antibody / Apical Membrane Marker Antibody with mouse monoclonal clone VIL1/2376. Strong HRP-DAB brown staining is observed as a sharp, continuous linear signal along the apical membrane of tumor epithelial cells, clearly outlining luminal surfaces and glandular boundaries. The distinct luminal border staining highlights the epithelial surface interface and supports Villin as an apical membrane marker for defining lumen-facing structures in colorectal carcinoma.




SDS-PAGE analysis of purified, BSA-free Villin Antibody / Apical Membrane Marker Antibody (clone VIL1/2376) as confirmation of integrity and purity.

## Description

Villin-1 (VIL1) is an actin-binding protein that is tightly restricted to the apical membrane of epithelial cells, where it defines the luminal surface and provides a clear boundary between epithelial tissue and the lumen. Villin Antibody / Apical Membrane Marker Antibody (clone VIL1/2376) is designed to detect this apically localized protein, and Villin antibody, also known as Villin-1 antibody or VIL1 antibody, is widely used to visualize luminal surface architecture in epithelial tissues. As an apical membrane marker, Villin produces a sharply confined signal along the lumen-facing border, making it a highly effective tool for defining epithelial surface boundaries.

Unlike polarity markers that describe cellular organization or cytoskeletal proteins that reflect structural function, Villin in this context is used specifically to outline the apical membrane as a distinct anatomical feature. Researchers using a Villin Antibody / Apical Membrane Marker Antibody are typically focused on identifying the exact location of the luminal surface, tracing glandular contours, and visualizing epithelial boundaries with high spatial precision. The signal appears as a continuous linear pattern along the lumen, clearly separating epithelial cells from adjacent spaces and highlighting surface topology.

In tissues such as the intestine, Villin staining forms a crisp luminal border that outlines villi, crypts, and glandular structures, providing a direct visual representation of epithelial surface organization. This makes it particularly useful for mapping tissue architecture, identifying gland formation, and evaluating structural changes in epithelial layers. Loss of this sharply defined apical pattern or redistribution of signal away from the luminal surface can indicate disruption of epithelial organization or structural remodeling in disease states.

This mouse monoclonal antibody (clone VIL1/2376) provides specific recognition of Villin as an apical membrane marker, enabling clear delineation of luminal surfaces in epithelial tissues. It is well suited for studies focused on epithelial boundary definition, glandular architecture, and luminal surface visualization, where precise identification of the apical membrane is the primary objective.

## Application Notes

Optimal dilution of the Villin Antibody / Apical Membrane Marker Antibody should be determined by the researcher.

## Immunogen

A recombinant human partial protein (amino acids 179-311) was used as the immunogen for this Villin Antibody / Apical Membrane Marker 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