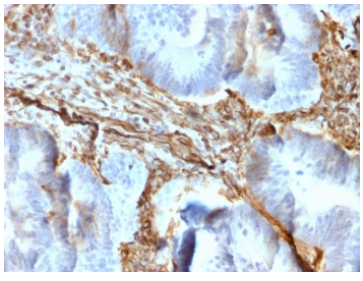
# VIM Antibody / Cytoskeletal Stability Marker Antibody [clone rVIM/6431] (V9292)

| Catalog No. | Formulation | Size |
|---|---|---|
| V9292-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V9292-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V9292SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

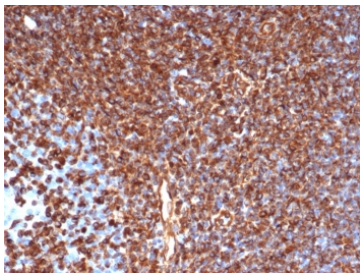
Recombinant | MOUSE MONOCLONAL

**Bulk quote request**

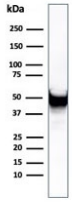
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human (broad species reactivity predicted) |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Recombinant Mouse Monoclonal |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | rVIM/6431 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P08670 |
| **Localization** | Cytoplasmic |
| **Applications** | Western blot: 1-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml |
| **Limitations** | This recombinant VIM antibody is available for research use only. |



VIM Antibody / Cytoskeletal Stability Marker Antibody Colon IHC. Immunohistochemistry analysis of FFPE human colon tissue using Vimentin antibody shows strong HRP-DAB brown cytoplasmic staining in stromal and pericryptal mesenchymal cells surrounding colonic glands, with minimal staining in epithelial cells. The recombinant rabbit monoclonal clone rVIM/6431 highlights continuous, well-defined filamentous networks within the cytoplasm, consistent with stable intermediate filament structures. The uniform intensity and organized distribution of Vimentin-positive filaments support its role in maintaining cytoskeletal stability and structural integrity within stromal compartments.



VIM Antibody Tonsil IHC. Immunohistochemistry staining of FFPE human tonsil tissue with recombinant VIM antibody (clone rVIM/6431). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




VIM Antibody / Cytoskeletal Stability Marker Antibody WB. Western blot analysis of human U-87 MG cell lysate using Vimentin antibody detects a prominent band at approximately 55 kDa, consistent with the predicted molecular weight of Vimentin (VIM). The recombinant rabbit monoclonal clone rVIM/6431 shows a clear, well-defined band, supporting detection of stable intermediate filament structures. The consistent band intensity reflects Vimentin expression associated with maintained cytoskeletal integrity and structural stability in mesenchymal-like tumor cells.

## Description

Vimentin (VIM) is a type III intermediate filament protein that provides structural stability and mechanical resilience to cells, particularly within mesenchymal and stromal populations. VIM Antibody / Cytoskeletal Stability Marker Antibody is specifically positioned for studying cytoskeletal integrity, mechanical support, and resistance to deformation under stress conditions. This VIM Antibody is uniquely positioned for analyzing stable filament networks that maintain cellular architecture and protect against mechanical disruption, making it highly relevant for studies focused on structural integrity rather than dynamic remodeling or migration. Vimentin is also referred to as Vimentin antibody, VIM antibody, and intermediate filament protein antibody in the literature.

Vimentin forms a resilient filament network that distributes mechanical forces throughout the cell, helping maintain shape and preventing damage under stress. This structural function is particularly important in tissues exposed to mechanical strain, where cytoskeletal stability is essential for maintaining function. The VIM Antibody / Cytoskeletal Stability Marker Antibody enables investigation of these stable cytoskeletal structures in cells that require long-term structural support.

In biological systems, Vimentin expression is associated with cells that maintain structural integrity in dynamic environments, including fibroblasts and endothelial cells. Its presence supports resistance to deformation and contributes to overall cellular durability. Stable Vimentin networks are critical for maintaining consistent cellular architecture.

Functionally, Vimentin interacts with other cytoskeletal elements to reinforce structural integrity and maintain mechanical balance within the cell. The VIM Antibody / Cytoskeletal Stability Marker Antibody differentiator is central to this antibody, positioning it specifically for studies focused on structural resilience rather than cytoskeletal remodeling or plasticity. A VIM Antibody provides a reliable tool for analyzing cytoskeletal stability, mechanical support, and structural integrity in mesenchymal systems.

Explore our Protein Microarray Validated Vimentin Antibody page to learn more about vimentin biology, mesenchymal cell markers, and additional validated products.

## Application Notes

Optimal dilution of the VIM Antibody / Cytoskeletal Stability Marker Antibody should be determined by the researcher.

## Immunogen

A portion of amino acids 2-466 from the human protein was used as the immunogen for the VIM Antibody / Cytoskeletal Stability Marker Antibody.

## Storage

Aliquot the recombinant VIM antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

## Alternate Names

Vimentin antibody, VIM antibody, cytoskeletal stability marker antibody, structural integrity marker antibody, intermediate filament stability antibody, mechanical resilience marker antibody


Copyright © NSJ Bioreagents. All rights reserved.