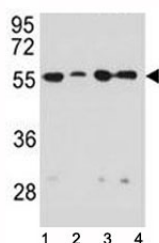


Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody (F52051)

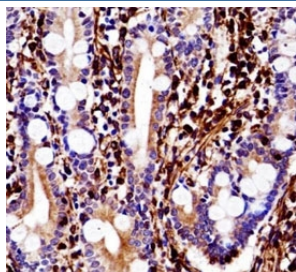
Catalog No.	Formulation	Size
F52051-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52051-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

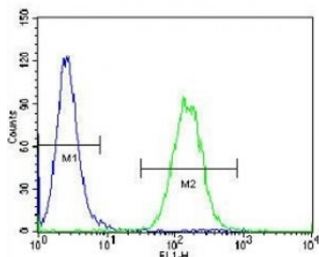
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P08670
Applications	Western Blot : 1:2000 IHC (Paraffin) : 1:50 Flow Cytometry : 1:50 Immunofluorescence : 1:50
Limitations	This Vimentin antibody is available for research use only.



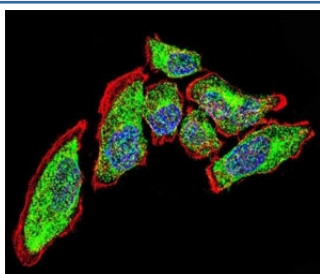
Vimentin antibody western blot analysis in 1) HeLa, 2) U251, 3) A549, and 4) MDA-MB231 lysate



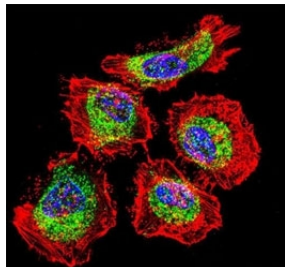
Vimentin antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human small intestine tissue



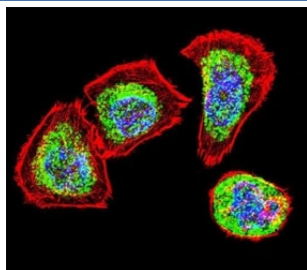
Vimentin antibody flow cytometric analysis of A549 cells (right histogram) compared to a negative control (left histogram).



Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody. Immunofluorescence analysis of Vimentin / VIM in human A549 cells demonstrating strong cytoplasmic filamentous staining (green) consistent with neural-associated cytoskeletal network organization. The Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody highlights elongated cell morphology and extensive intermediate filament structures extending throughout the cytoplasm, with clear spatial distinction from actin filaments labeled in red. Nuclei are counterstained with DAPI (blue), supporting high-resolution visualization of cytoskeletal architecture and filament organization in confocal imaging.



Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody. Immunofluorescence analysis of Vimentin / VIM in human HeLa cells demonstrating strong cytoplasmic filamentous staining (green) consistent with neural-associated cytoskeletal organization and intermediate filament network distribution. The Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody highlights extensive filament structures throughout the cytoplasm, with clear spatial separation from actin filaments labeled in red, emphasizing distinct cytoskeletal systems. Nuclei are counterstained with DAPI (blue), supporting high-resolution visualization of cytoskeletal architecture and filament organization in confocal imaging.



Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody. Immunofluorescence analysis of Vimentin / VIM in human U251 glioblastoma cells demonstrating strong cytoplasmic filamentous staining (green) consistent with neural-associated cytoskeletal network organization. The Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody highlights prominent intermediate filament structures and elongated, invasive cell morphology characteristic of glioblastoma cells, with clear distinction from actin filaments labeled in red. Nuclei are counterstained with DAPI (blue), supporting high-resolution visualization of cytoskeletal architecture and neural tumor cell morphology in confocal imaging.

Description

Vimentin (VIM) is a type III intermediate filament protein that is strongly expressed in neural-associated and mesenchymal cell types, where it plays a central role in cytoskeletal organization and cellular morphology. Vimentin Antibody is specifically positioned for immunofluorescence imaging of neural cytoskeleton structure, with strong relevance in glioblastoma models such as U251 as well as widely used cancer cell lines including A549 and HeLa. This aligns with

search intent such as Vimentin immunofluorescence antibody, VIM IF antibody for neural cells, and neural cytoskeleton marker antibody. Vimentin is also referred to as Vimentin antibody, VIM antibody, and intermediate filament marker antibody in the literature, reinforcing alignment between gene, protein, and imaging-focused terminology.

In immunofluorescence and confocal microscopy, Vimentin forms a prominent filamentous network that is particularly well defined in neural-derived tumor cells such as U251 glioblastoma cells. Vimentin Antibody enables high-resolution visualization of these cytoskeletal structures, which extend from the perinuclear region to the cell periphery and define the elongated morphology commonly observed in neural and invasive cancer cells. This neural cytoskeleton immunofluorescence marker antibody positioning is a key differentiator, allowing researchers to study structural organization and morphological adaptation in glioblastoma and related models.

Beyond neural-derived cells, Vimentin is also expressed in epithelial-derived cancer cell lines such as A549 and HeLa, where it contributes to cytoskeletal remodeling and cellular plasticity. In fluorescence imaging workflows, Vimentin Antibody supports direct comparison of filament organization across diverse cell types, enabling analysis of cytoskeletal differences between neural tumor cells and non-neural cancer models. This makes it particularly valuable for studies examining morphology, migration, and structural heterogeneity across cancer systems.

Functionally, Vimentin interacts with actin filaments and microtubules to regulate cell shape, intracellular organization, and mechanical signaling. Its dynamic reorganization through phosphorylation supports processes such as mitosis, migration, and cytoskeletal remodeling, especially in highly plastic or invasive cells. The neural cytoskeleton immunofluorescence marker antibody differentiator is central to this antibody, positioning it specifically for fluorescence-based imaging of glioblastoma and neural-associated cytoskeletal networks rather than EMT or tumor microenvironment-focused applications. A rabbit polyclonal Vimentin Antibody provides strong fluorescent signal and enables detailed visualization of Vimentin / VIM filament architecture across neural and cancer cell models.

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

Application Notes

Titration of the Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This Vimentin Antibody / Neural Cytoskeleton Immunofluorescence Marker Antibody was produced from rabbits immunized with human Vimentin recombinant protein.

Storage

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

Alternate Names

VIM antibody, Vimentin immunofluorescence antibody, Neural cytoskeleton marker antibody, Glial marker antibody, Cytoskeletal imaging antibody

