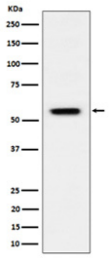
Phospho-Vimentin (Ser39) Antibody / VIM [clone 31V35] (FY12596)

Catalog No.	Formulation	Size
FY12596	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

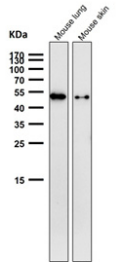
Recombinant RABBIT MONOCLONAL

Bulk quote request

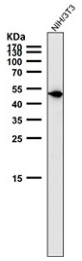
Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	31V35
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	P08670
Applications	Western Blot : 1:500-1:2000
Limitations	This Phospho-Vimentin (Ser39) antibody is available for research use only.



Phospho-Vimentin (Ser39) Antibody / Mitotic Marker Antibody Calyculin A-Treated HeLa WB. Western blot analysis of lysate from Calyculin A-treated HeLa cells using Phospho-Vimentin (Ser39) Antibody / Mitotic Marker Antibody. A distinct immunoreactive band is detected at approximately 53-58 kDa, consistent with the expected molecular weight of phosphorylated vimentin. Calyculin A treatment promotes accumulation of serine 39-phosphorylated vimentin through inhibition of protein phosphatases, supporting specific detection of this phosphorylation event associated with mitotic signaling and intermediate filament remodeling.



All lanes use the Phospho-Vimentin (Ser39) antibody at 1:1000 dilution for 1 hour at room temperature. Predicted molecular weight ~53-58 kDa.



Mouse NIH 3T3 cell lysate tested with Phospho-Vimentin (Ser39) antibody at 1:1000 dilution for 1 hour at room temperature. Predicted molecular weight ~53-58 kDa.

Description

Phospho-Vimentin (Ser39) antibody detects vimentin phosphorylated at serine 39. Vimentin, encoded by the VIM gene, is a type III intermediate filament protein that provides structural support and regulates cellular architecture. Vimentin filaments undergo dynamic phosphorylation at multiple sites, which regulates filament assembly, disassembly, and interactions with signaling proteins. Phosphorylation at Ser39 by kinases such as PKC alters filament organization during mitosis, migration, and stress responses.

Phospho-Vimentin (Ser39) antibody is widely applied in cancer research, cell biology, and developmental studies. Vimentin phosphorylation at Ser39 facilitates cytoskeletal reorganization, promoting epithelial to mesenchymal transition, migration, and invasion. In cancer, elevated phospho vimentin correlates with metastasis and poor prognosis. By detecting phosphorylation at Ser39, researchers can investigate how cytoskeletal remodeling contributes to tumor progression and cell plasticity.

Western blot assays reveal phosphorylated vimentin bands distinct from total protein. Immunohistochemistry highlights phospho vimentin in invasive tumor regions, while immunofluorescence maps cytoplasmic distribution in migrating cells. These applications make Phospho-Vimentin (Ser39) antibody valuable for tracking cytoskeletal changes in disease and development.

Phosphorylation of vimentin integrates mechanical and chemical signals that regulate mitosis, adhesion, and stress adaptation. By applying Phospho-Vimentin (Ser39) antibody, scientists can evaluate how phosphorylation controls filament turnover and supports cellular responses to growth factors and mechanical stress. Its use in combination with total vimentin antibody provides a complete picture of cytoskeletal regulation.

Beyond cancer, phospho vimentin is important in wound healing, embryogenesis, and inflammation. Dynamic filament remodeling ensures proper migration of fibroblasts, endothelial cells, and immune cells during tissue repair and development. The phospho-specific antibody therefore provides a versatile tool for exploring structural regulation in multiple biological systems.

Phospho-Vimentin (Ser39) antibody from NSJ Bioreagents delivers strong specificity for detecting phosphorylated VIM, enabling precise analysis of cytoskeletal signaling and remodeling in health and disease.

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 Phospho-Vimentin (Ser39) antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Phospho-Vimentin (S39) was used as the immunogen for the Phospho-Vimentin (Ser39) antibody.

Storage

Store the Phospho-Vimentin (Ser39) antibody at -20oC.

Alternate Names

Phospho-Vimentin (Ser39) antibody, Phospho-VIM (Ser39) antibody, Phosphorylated Vimentin Ser39 antibody, Vimentin phospho Ser39 antibody, Vimentin pSer39 antibody, Phospho-Vimentin S39 antibody

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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