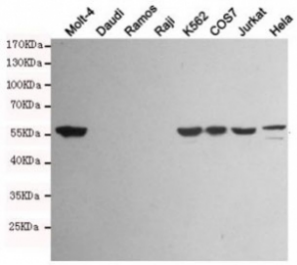
Vimentin Antibody for WB / VIM Western Blot Antibody [clone 4F8-A5-H5] (F54035)

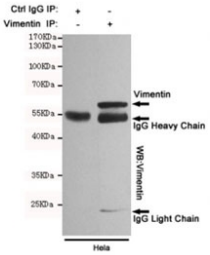
Catalog No.	Formulation	Size
F54035-0.1ML	In PBS with 50% glycerol and 0.03% ProClin 300	0.1 ml

Bulk quote request

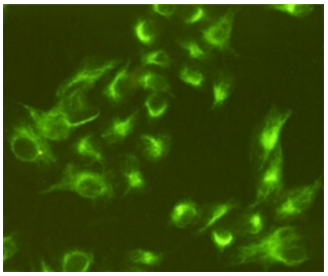
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	4F8-A5-H5
Purity	Protein G affinity
UniProt	P08670
Applications	Western Blot : 1:1000 ICC/IF : 1:800 Immunoprecipitation : suitable
Limitations	This Vimentin antibody is available for research use only.



Vimentin Antibody for WB / VIM Western Blot Antibody. Western blot analysis of Vimentin / VIM in human cell line lysates showing band detection across multiple samples. Lane 1: Molt-4, Lane 2: Daudi, Lane 3: Ramos, Lane 4: Raji, Lane 5: K562, Lane 6: COS7, Lane 7: Jurkat, Lane 8: HeLa. A band is detected at approximately 55-60 kDa in Vimentin-positive cell lines (Molt-4, K562, COS7, Jurkat, HeLa), consistent with the predicted molecular weight of Vimentin / VIM. No band is observed in Vimentin-negative cell lines (Daudi, Ramos, Raji), confirming specificity. The Vimentin Antibody for WB / VIM Western Blot Antibody (clone 4F8-A5-H5) enables clear protein band detection and discrimination between positive and negative lysates under SDS-PAGE conditions.



Immunoprecipitation of Vimentin from HeLa cell lysate, and subsequent western blot testing, using Vimentin Antibody for WB / VIM Western Blot Antibody.



ICC/IF staining of HeLa cells, fixed with 4% Paraformaldehyde, using Vimentin antibody at 1:800.

Description

Vimentin (VIM) is a type III intermediate filament protein that is highly expressed in mesenchymal cells and serves as a key cytoskeletal component regulating cellular structure and stability. Vimentin Antibody for WB is specifically designed for western blot analysis, enabling robust detection of Vimentin protein bands in cell and tissue lysates under denaturing conditions. This aligns strongly with search intent such as Vimentin western blot antibody, VIM WB antibody, and Vimentin antibody for SDS-PAGE analysis. Vimentin is also referred to as Vimentin antibody, VIM antibody, and intermediate filament marker antibody in the literature, supporting strong alignment between gene, protein, and assay-specific terminology.

In western blot workflows, Vimentin Antibody for WB enables clear identification of Vimentin bands across a wide range of biological samples, including fibroblasts, endothelial cells, leukocytes, and mesenchymal-derived tumor cell lysates. The antibody supports detection of Vimentin under reducing and denaturing conditions, making it suitable for SDS-PAGE separation followed by immunoblotting. This application is essential for confirming protein expression, comparing sample-to-sample variation, and validating mesenchymal phenotype at the protein level.

Vimentin is subject to post-translational modifications such as phosphorylation, which can influence its electrophoretic mobility and result in band pattern variation on western blot. Vimentin Antibody for WB is therefore useful for analyzing changes in protein state, cytoskeletal remodeling, and signaling-dependent modifications across experimental conditions. It is commonly used in studies of epithelial-mesenchymal transition, tumor progression, and cytoskeletal dynamics where protein-level validation is required.

Functionally, Vimentin interacts with actin filaments and microtubules to coordinate cytoskeletal organization, cell migration, and intracellular transport. The Vimentin Antibody for WB differentiator is central to this antibody, positioning it specifically for protein detection, band analysis, and comparative expression studies rather than imaging-based applications. A mouse monoclonal Vimentin Antibody for WB provides strong and consistent signal detection, supporting reliable visualization of Vimentin / VIM bands in western blot assays across diverse sample types and experimental conditions.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Vimentin Antibody for WB / VIM Western Blot Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A human recombinant partial protein was used as the immunogen for this Vimentin Antibody for WB / VIM Western Blot Antibody.

Storage

Store the Vimentin antibody at -20oC.

Alternate Names

VIM antibody, Vimentin western blot antibody, Mesenchymal marker antibody, Intermediate filament protein antibody, Cytoskeletal marker antibody

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