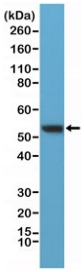
Vimentin Antibody C-Terminus / VIM C-Terminal Epitope Antibody [clone RM289] (R20315)

Catalog No.	Formulation	Size
R20315-0.1ML	Antibody in PBS with 50% glycerol, 1% BSA and 0.09% sodium azide	100 ul

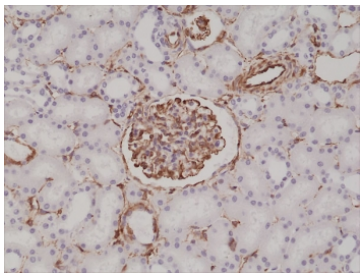
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	RM289
Purity	Protein A purified from animal origin-free supernatant
UniProt	P08670
Localization	Cytoplasmic, cell membrane
Applications	Immunohistochemistry (FFPE) : 1:100-1:200 Western Blot : 1:200-1:500
Limitations	This recombinant Vimentin antibody is available for research use only.



Western blot testing of human HeLa lysate with Vimentin Antibody C-Terminus / VIM C-Terminal Epitope Antibody at 1:400 dilution. Predicted molecular weight ~53 kDa.



IHC testing of formalin fixed and paraffin embedded human kidney tissue with recombinant Vimentin antibody at 1:200 dilution. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

Description

Vimentin (VIM) is a type III intermediate filament protein that plays a fundamental role in maintaining cytoskeletal architecture and mechanical stability in mesenchymal cells. It is abundantly expressed in fibroblasts, endothelial cells, and other stromal cell types, where it contributes to cell shape, resilience, and intracellular organization. Vimentin, also known as VIM antibody or Vimentin antibody in the literature, is widely used as a marker of mesenchymal identity and cytoskeletal dynamics.

The Vimentin Antibody C-Terminus / VIM C-Terminal Epitope Antibody is uniquely positioned for detecting the C-terminal region of the Vimentin protein, a domain involved in filament assembly regulation and protein-protein interactions. This Vimentin Antibody C-Terminus enables targeted recognition of structural elements associated with intermediate filament organization, offering an epitope-specific approach for studying cytoskeletal architecture. Clone RM289 is a recombinant rabbit monoclonal antibody designed to provide consistent and specific detection of VimentinÃ¢Â€Â™s C-terminal domain.

The C-terminal region of Vimentin plays a critical role in filament elongation, network formation, and interaction with associated cytoskeletal proteins. By focusing on this region, the VIM C-terminal antibody supports analysis of filament maturation and structural remodeling processes within cells. This makes it particularly useful for research applications examining changes in cytoskeletal organization under different biological conditions.

In addition to its structural role, Vimentin is involved in cellular processes such as migration, adhesion, and intracellular transport. The C-terminal domain contributes to these functions through interactions with signaling molecules and cytoskeletal partners. The Vimentin C-terminus antibody therefore provides a valuable tool for studying how structural domains of Vimentin influence cellular behavior and organization.

This Vimentin Antibody C-Terminus is especially relevant for studies investigating isoform variation, post-translational modifications, or domain-specific structural changes, where epitope location can influence detection patterns. By targeting the C-terminal tail domain, this antibody supports refined analysis of Vimentin biology at the structural level.

Overall, the Vimentin Antibody C-Terminus / VIM C-Terminal Epitope Antibody offers a focused and domain-specific approach to studying Vimentin, enabling researchers to investigate cytoskeletal organization and protein structure with greater precision.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Vimentin Antibody C-Terminus / VIM C-Terminal Epitope Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A peptide corresponding to the C-terminus of human Vimentin was used as the immunogen for the Vimentin Antibody C-Terminus / VIM C-Terminal Epitope Antibody.

Storage

Store the recombinant Vimentin antibody at -20oC.

Alternate Names

Vimentin antibody, VIM antibody, Vimentin C-terminus antibody, VIM C-terminal antibody, Vimentin tail domain antibody, Vimentin epitope-specific antibody

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