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KD-Validated Anti-Phospho-Vimentin (Ser72) Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1422

Specification

KD-Validated Anti-Phospho-Vimentin (Ser72) Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	P08670
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 54 kDa; observed, 54 kDa KDa**
Gene Name	**VIM**
Aliases	**VIM; Vimentin; Epididymis Secretory Sperm Binding Protein 3**
Immunogen	**A synthesized peptide derived from human Phospho-Vimentin (Ser72)**

KD-Validated Anti-Phospho-Vimentin (Ser72) Rabbit Monoclonal Antibody - Additional Information

Gene ID	**7431**

Other Names
Vimentin {ECO:0000312|HGNC:HGNC:12692}, VIM (HGNC:12692)

KD-Validated Anti-Phospho-Vimentin (Ser72) Rabbit Monoclonal Antibody - Protein Information

Name VIM (HGNC:12692)

Function
Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally. Plays a role in cell directional movement, orientation, cell sheet organization and Golgi complex polarization at the cell migration front (By similarity). Protects SCRIB from proteasomal degradation and facilitates its localization to intermediate filaments in a cell contact-mediated manner (By similarity).

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton. Nucleus matrix {ECO:0000250|UniProtKB:P31000}. Cell membrane {ECO:0000250|UniProtKB:P20152}

Tissue Location
Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary

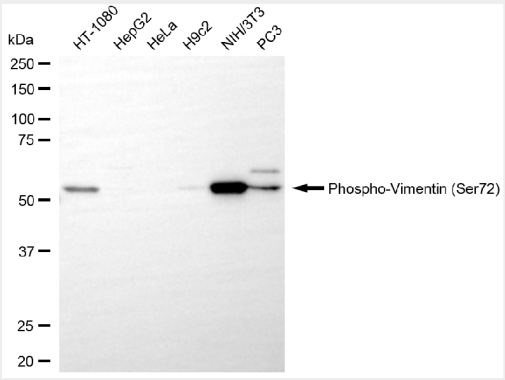
carcinoma cell lines.

KD-Validated Anti-Phospho-Vimentin (Ser72) Rabbit Monoclonal Antibody - Protocols

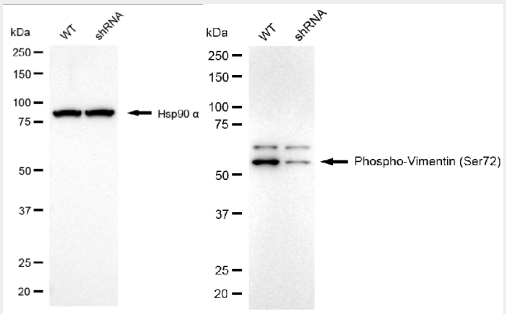
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Phospho-Vimentin (Ser72) Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-phospho-vimentin (Ser72) antibody (Cat#AGI1422). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-phospho-vimentin (Ser72) antibody (Cat#AGI1422, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-phospho-vimentin (Ser72) antibody (Cat#AGI1422). Phospho-vimentin (Ser72) expression in wild-type (WT) and VIM shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-phospho-vimentin (Ser72) antibody (Cat#AGI1422, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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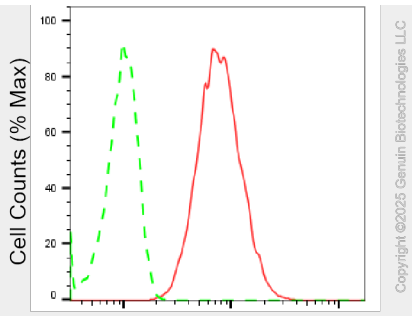
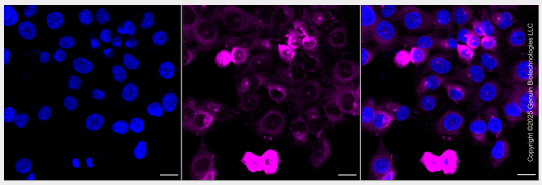


Phospho-Vimentin (Ser72)-Alexa Fluor® 647

Flow cytometric analysis of Phospho-Vimentin (Ser72) expression in HT-1080 cells using anti-Phospho-Vimentin (Ser72) antibody (Cat#AGI1422, 1:2,000). Green, isotype control; red, Phospho-Vimentin (Ser72).



Immunocytochemical staining of HT-1080 cells with anti-Phospho-Vimentin (Ser72) antibody (Cat#AGI1422, 1:1,000). Nuclei were stained blue with DAPI; Phospho-Vimentin (Ser72) was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar, 20 µm.