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VIME Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8694a

Specification

VIME Antibody - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	P08670
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**

VIME Antibody - Additional Information

Gene ID 7431

Other Names
Vimentin, VIM

Target/Specificity
This Vimentin antibody is generated from rabbits immunized with Vimentin recombinant protein.

Dilution
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
VIME Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

VIME 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}

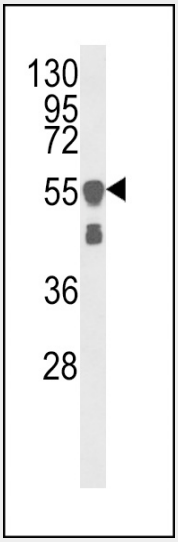
Tissue Location
Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

VIME 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

VIME Antibody - Images



Western blot analysis of VIME Antibody (Cat. #AP8694a) in A375 cell line lysates (35ug/lane). VIME (arrow) was detected using the purified Pab.

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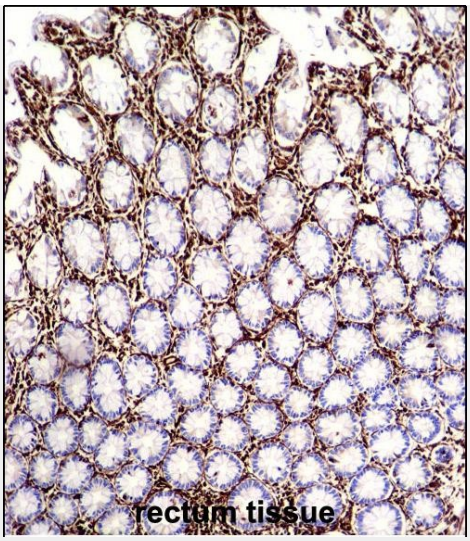
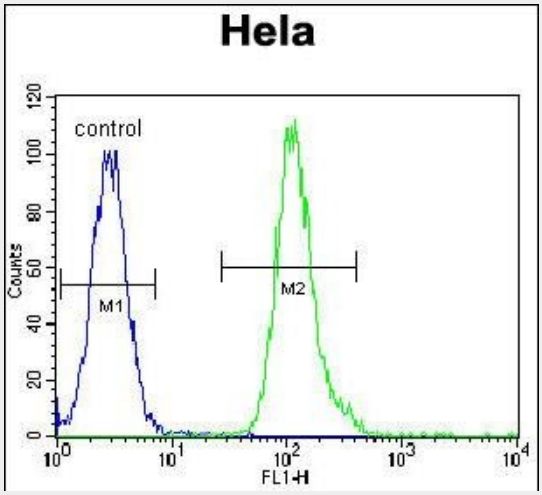


VIME Antibody (Cat. #AP8694a)immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of VIME Antibody for immunohistochemistry. Clinical relevance has not been evaluated.



VIME Antibody (Cat. #AP8694a) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

VIME Antibody - Background

VIME is a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. This protein is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling.

VIME Antibody - References

Morishima,N., Genes Cells 4 (7), 401-414 (1999)