

Product Name: Vimentin Mouse Monoclonal Antibody
Catalog #: AMM80578



Summary

Production Name	Vimentin Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,FC,ELISA
Reactivity	Human,Mouse,Monkey

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	PBS containing 0.03% sodium azide.
Purification	Affinity Purification

Immunogen

Gene Name	Vimentin
Alternative Names	FLJ36605; VIM
Gene ID	7431.0
SwissProt ID	P08670.Purified recombinant fragment of Vimentin expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:200-1:1000,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	54kDa

Background

Vimentin is the major subunit protein of the intermediate filaments of mesenchymal cells. It is believed to be involved with

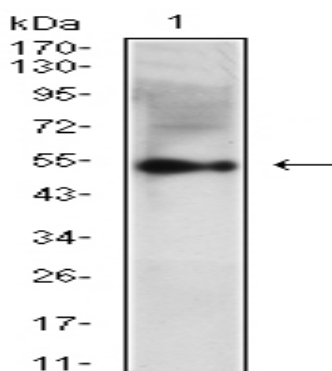
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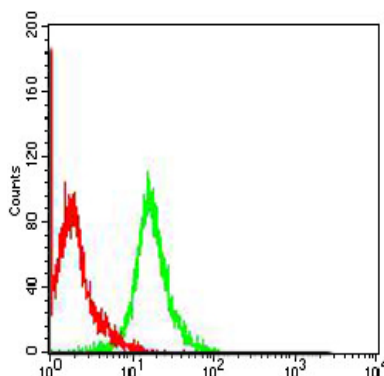
the intracellular transport of proteins between the nucleus and plasma membrane. Vimentin has been implicated to be involved in the rate of steroid synthesis via its role as a storage network for steroidogenic cholesterol containing lipid droplets. Vimentin phosphorylation by a protein kinase causes the breakdown of intermediate filaments and activation of an ATP and myosin light chain dependent contractile event. This results in cytoskeletal changes that facilitate the interaction of the lipid droplets within mitochondria, and subsequent transport of cholesterol to the organelles leading to an increase in steroid synthesis. Immunohistochemical staining for Vimentin is characteristic of sarcomas (of neural, muscle and fibroblast origin) compared to carcinomas which are generally negative. Melanomas, lymphomas and vascular tumors may all stain for Vimentin. Vimentin antibodies are thus of value in the differential diagnosis of undifferentiated neoplasms and malignant tumors. They are generally used with a panel of other antibodies including those recognising cytokeratins, lymphoid markers, S100, desmin and neurofilaments.

Research Area

Image Data

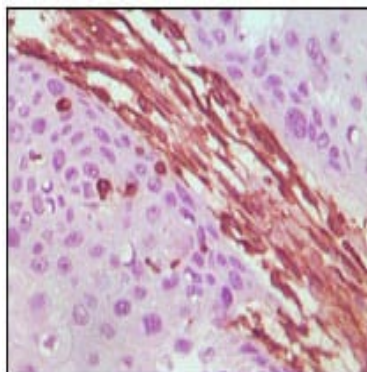


Western blot analysis using Vimentin mouse mAb against NIH/3T3 cell lysate.



Flow cytometric analysis of COS7 cells using Vimentin mouse mAb (green) and negative control (red).

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Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue, showing cytoplasmic localization using Vimentin mouse mAb with DAB staining.

Note

For research use only.