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Anti-Vimentin Antibody

Mouse Anti Human Monoclonal Antibody
Catalog # AP53427

Product Information

Application	WB, IF, IP
Primary Accession	P08670
Other Accession	NM_003380
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Immunogen	Purified recombinant human Vimentin protein fragments expressed in E.coli.
Purification	Affinity purified
Calculated MW	53652

Additional Information

Gene ID	7431
Other Names	CTRCT30; Epididymis luminal protein 113; FLJ36605; HEL113; OTTHUMP00000019224; VIM; VIME_HUMAN; Vimentin.
Dilution	WB~~1:1000 IF~~1:50~200 IP~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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). May promote axon outgrowth and motor fiber repair via DSP-mediated recruitment to outgrowth tips (By similarity).
Cellular Location	Cytoplasm. Cytoplasm, cytoskeleton. Nucleus matrix

{ECO:0000250|UniProtKB:P31000}. Cell membrane
{ECO:0000250|UniProtKB:P20152}. Cell projection, axon
{ECO:0000250|UniProtKB:P20152}

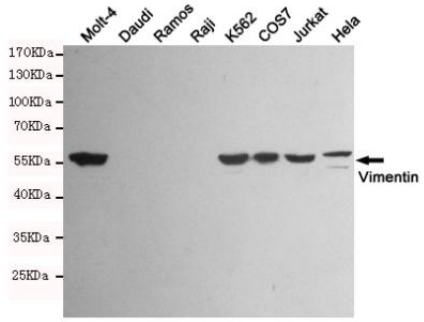
Tissue Location

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.

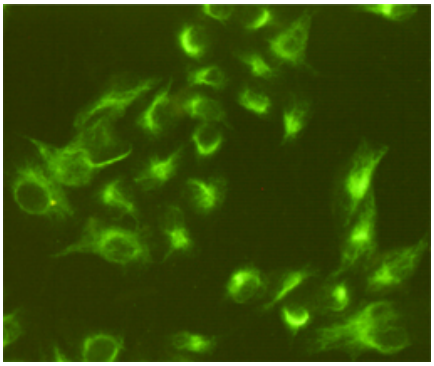
Background

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.

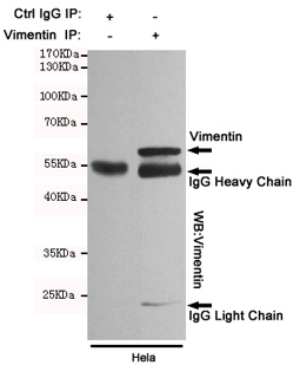
Images



Western blot detection of Vimentin in Molt-4,K562,COS7,Jurkat,Hela and Vimentin negative cell (Daudi,Ramos,Raji) lysates using Vimentin mouse mAb (1:1000 diluted).Predicted band size:57KDa.Observed band size:57KDa.



Immunocytochemistry staining of Hela cells fixed with 4% Paraformaldehyde and using anti-Vimentin mouse mAb (dilution 1:800).



Immunoprecipitation analysis of Hela cell lysates using Vimentin mouse mAb.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.