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Anti-Vimentin Antibody (Monoclonal, V9)

Catalog # ABO10485

Product Information

Application	WB, IHC-P
Primary Accession	P31000
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Human, Rat, Pig
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Vimentin, vimentin (VIM) detection. Tested with WB, IHC-P in Human;rat;rabbit;pig. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	81818
Other Names	Vimentin, Vim
Calculated MW	53733
Application Details	Immunohistochemistry(Paraffin-embedded Section), 1.5-2.5 □g/ml, Human, rabbit, pig, rat, By Heat Western blot, 0.5-1 □g/ml, Human, rabbit, pig, rat
Subcellular Localization	Nucleus matrix . Cytoplasm .
Tissue Specificity	VIM: Highly expressed in fibroblasts, someexpression in T- and B-lymphocytes, and little or no expression inBurkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.
Source	Eukaryota
Protein Name	Vimentin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN3 as preservative.
Clone Names	V9
Immunogen	Pig eye lens vimentin.
Purification	Ascites

Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the intermediate filament family.

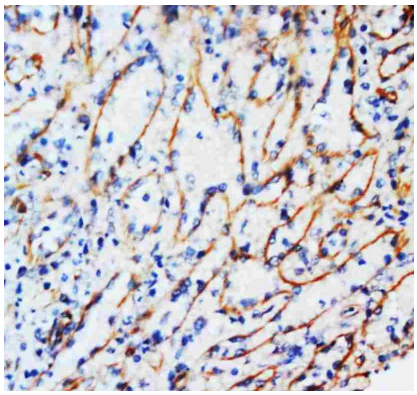
Protein Information

Name	Vim {ECO:0000312|RGD:621646}
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 {ECO:0000250|UniProtKB:P08670}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P08670}. Nucleus matrix. Cell membrane {ECO:0000250|UniProtKB:P20152}. Cell projection, axon {ECO:0000250|UniProtKB:P20152}

Background

The VIM gene was one of many that Gieser and Swaroop(1992) recovered from a subtracted cDNA library for retinal pigment epithelium. Vimentin gene express in human lymphocytes and in Burkitt's lymphoma cells. Vimentin is secreted by activated macrophages. The gene encoding human vimentin is located on the short arm of chromosome 10.

Images



Anti-Vimentin antibody (monoclonal), ABO10485, IHC(P)IHC(P): Human Mammary Cancer Tissue