

Anti-Vimentin Picoband Antibody

Catalog # ABO12050

Product Information

Application	WB, IHC-P
Primary Accession	P08670
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Vimentin(VIM) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7431
Other Names	Vimentin, VIM
Calculated MW	53652
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm .
Tissue Specificity	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. .
Source	Eukaryota
Protein Name	Vimentin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Vimentin (435-466aa DTHSKRTLIIKTVETRDGQVINETSQHHDDLE), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
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.

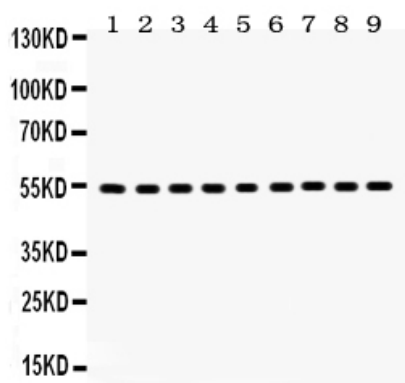
Protein Information

Name	VIM (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

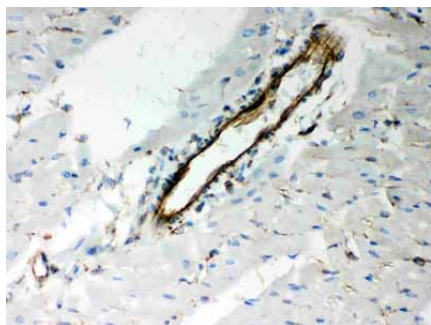
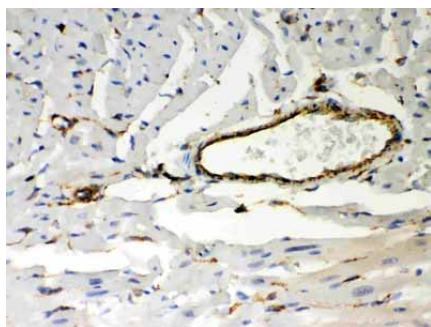
VIM(vimentin) is also known as HEL113 or CTRCT30. This gene encodes a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity 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. Mutations in this gene causes a dominant, pulverulent cataract.

Images

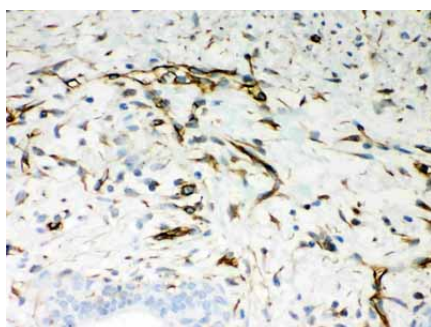


Anti- Vimentin Picoband antibody, ABO12050, Western blotting
 All lanes: Anti Vimentin (ABO12050) at 0.5ug/ml
 Lane 1: HT1080 Whole Cell Lysate at 40ug
 Lane 2: NIH Whole Cell Lysate at 40ug
 Lane 3: JURKAT Whole Cell Lysate at 40ug
 Lane 4: HUT Whole Cell Lysate at 40ug
 Lane 5: MCF-7 Whole Cell Lysate at 40ug
 Lane 6: HELA Whole Cell Lysate at 40ug
 Lane 7: Human Placenta Tissue Lysate at 50ug
 Lane 8: Rat Testis Tissue Lysate at 50ug
 Lane 9: Mouse Testis Tissue Lysate at 50ug
 Predicted bind size: 54KD
 Observed bind size: 54KD

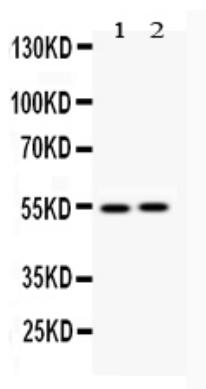
Anti- Vimentin Picoband antibody, ABO12050,
 IHC(P)IHC(P): Mouse Cardiac Muscle Tissue



Anti- Vimentin Picoband antibody, ABO12050,
IHC(P)IHC(P): Rat Cardiac Muscle Tissue



Anti- Vimentin Picoband antibody, ABO12050,
IHC(P)IHC(P): Human Mammary Cancer Tissue



Anti- Vimentin Picoband antibody, ABO12050, Western
blottingAll lanes: Anti Vimentin (ABO12050) at
0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2:
Mouse Kidney Tissue Lysate at 50ugPredicted bind size:
54KDObserved bind size: 54KD

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