10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

Anti-Vimentin Picoband Antibody

Catalog # ABO12050

Specification

Anti-Vimentin Picoband Antibody - 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.

Anti-Vimentin Picoband Antibody - Additional Information

Gene ID 7431

Other Names
Vimentin, VIM

Calculated MW
53652 MW KDa

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. .

Protein Name
Vimentin

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human Vimentin (435-466aa DTHSKRTLLIKTVETRDGQVINETSQHHDDLE), 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.

Anti-Vimentin Picoband 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.

Anti-Vimentin Picoband 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

Anti-Vimentin Picoband Antibody - Images

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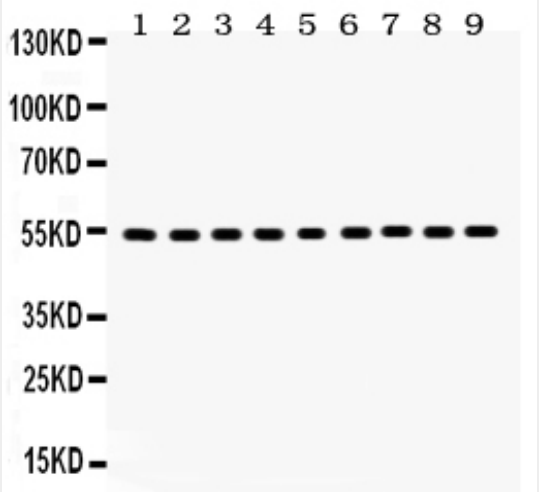
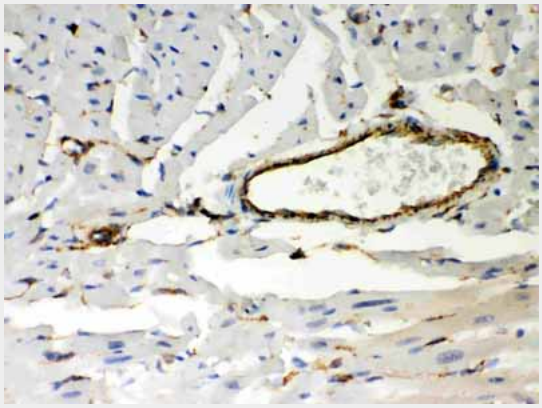
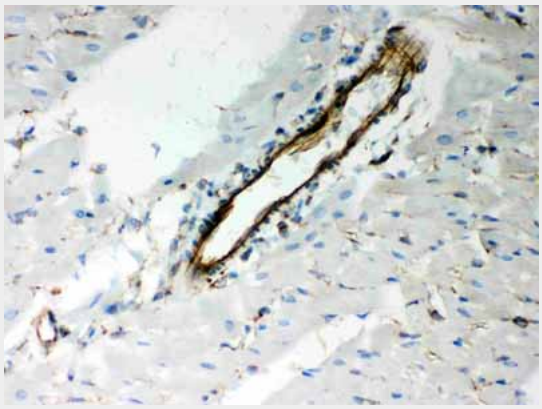


Anti- Vimentin Picoband antibody, ABO12050, Western blottingAll lanes: Anti Vimentin (ABO12050) at 0.5ug/mlLane 1: HT1080 Whole Cell Lysate at 40ugLane 2: NIH Whole Cell Lysate at 40ugLane 3: JURKAT Whole Cell Lysate at 40ugLane 4: HUT Whole Cell Lysate at 40ugLane 5: MCF-7 Whole Cell Lysate at 40ugLane 6: HELA Whole Cell Lysate at 40ugLane 7: Human Placenta Tissue Lysate at 50ugLane 8: Rat Testis Tissue Lysate at 50ugLane 9: Mouse Testis Tissue Lysate at 50ugPredicted bind size: 54KDObserved 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

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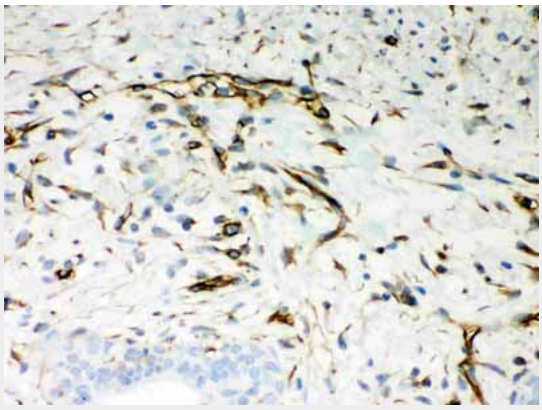
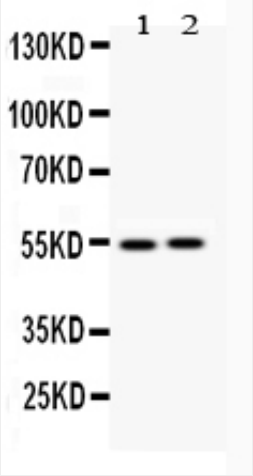


Anti- Vimentin Picoband antibody, ABO12050, IHC(P)IHC(P): Human Mammary Cancer Tissue



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

Anti-Vimentin Picoband Antibody - 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.