

**Anti-Vimentin Picoband Antibody**  
**Catalog # ABO12050****Specification**

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**Anti-Vimentin Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P08670</a>
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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Vimentin (435-466aa DTHSKRTLLIKTVETRDGQVINETSQHDDLE), 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 reconstitution, 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}

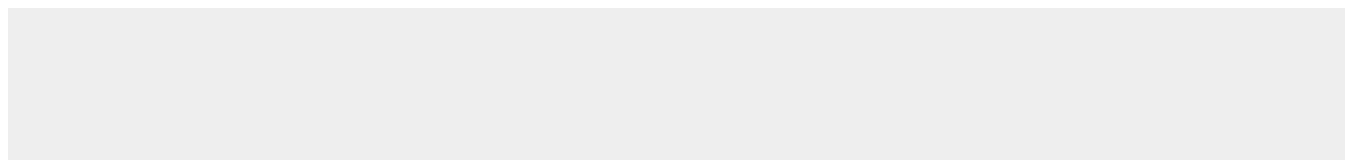
**Tissue Location**

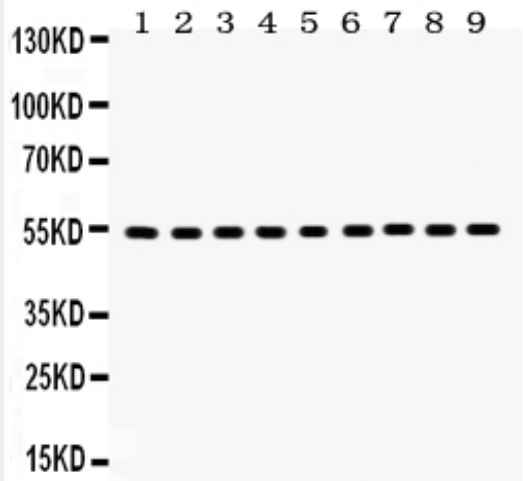
Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines.

**Anti-Vimentin Picoband Antibody - Protocols**

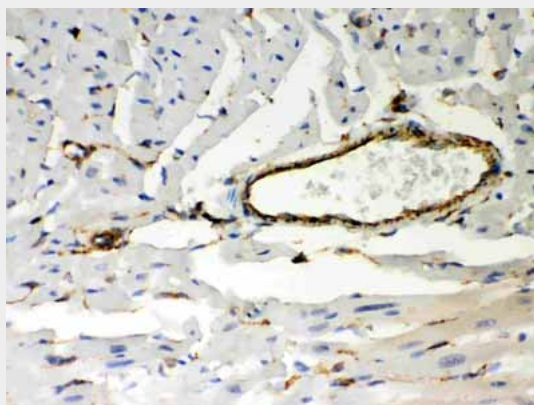
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

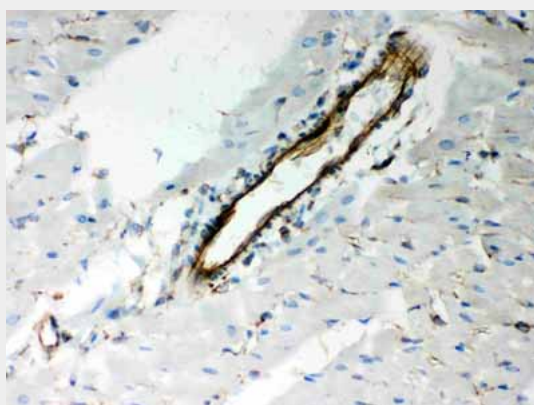
**Anti-Vimentin Picoband Antibody - Images**



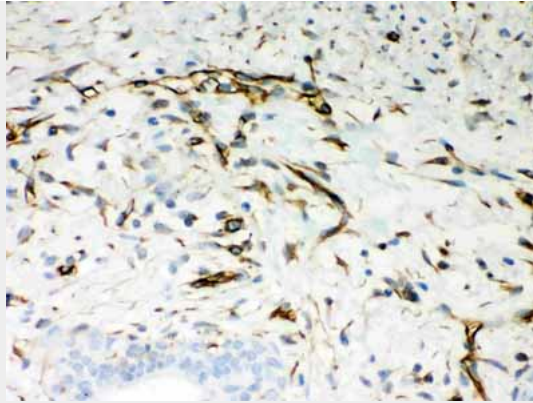
Anti- Vimentin Picoband antibody, ABO12050, Western blotting All lanes: Anti Vimentin (ABO12050) at 0.5ug/ml  
Lane 1: HT1080 Whole Cell Lysate at 40ug  
Lane 2: NIH Whole Cell Lysate at 40ug  
Lane 3: JURKAT Whole Cell Lysate at 40ug  
Lane 4: HUT Whole Cell Lysate at 40ug  
Lane 5: MCF-7 Whole Cell 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



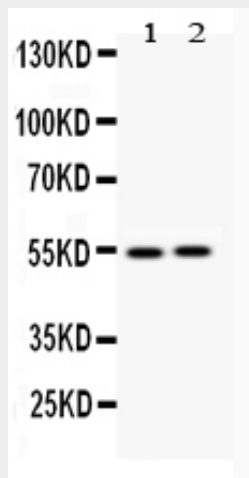
Anti- Vimentin Picoband antibody, ABO12050, IHC(P) IHC(P): Mouse Cardiac Muscle Tissue



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

### 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 filaments, 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.