

# Vimentin Antibody (S82)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2739a

## Product Information

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<b>Application</b>	WB, IHC-P, IF, E
<b>Primary Accession</b>	<a href="#">P08670</a>
<b>Other Accession</b>	<a href="#">P31000</a> , <a href="#">P20152</a> , <a href="#">Q4R4X4</a> , <a href="#">P48670</a> , <a href="#">P48616</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Predicted</b>	Rat, Bovine, Hamster, Monkey
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB15215
<b>Calculated MW</b>	53652
<b>Antigen Region</b>	63-90

## Additional Information

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<b>Gene ID</b>	7431
<b>Other Names</b>	Vimentin, VIM
<b>Target/Specificity</b>	This Vimentin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-90 amino acids from human Vimentin.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 IF~~1:200 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Vimentin Antibody (S82) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	VIM ( <a href="#">HGNC:12692</a> )
<b>Function</b>	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.

## Background

Along with the microfilaments (actins) and microtubules (tubulins), the intermediate filaments represent a third class of well-characterized cytoskeletal elements. The subunits display a tissue-specific pattern of expression. Desmin (MIM 125660) is the subunit specific for muscle and vimentin the subunit specific for mesenchymal tissue.

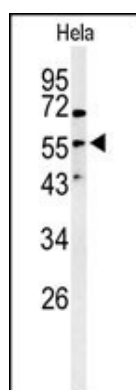
## References

References for protein:

1. Whipple, R.A., Cancer Res. 68 (14), 5678-5688 (2008)
2. Garcia-Verdugo, I., Biochemistry 47 (18), 5127-5138 (2008)
3. Merdes, A., J. Cell Biol. 115 (2), 397-410 (1991)

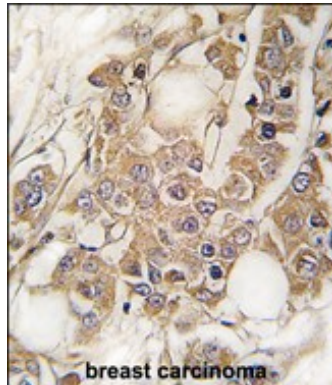
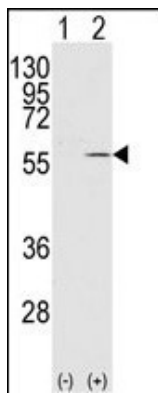
References for SY5Y (SH-SY5Y; ATCC#CRL-2266): 1. Ross RA, et al. Coordinate morphological and biochemical interconversion of human neuroblastoma cells. J. Natl. Cancer Inst. 71: 741-749, 1983. [PubMed: 6137586]; 2. Biedler JL, et al. Multiple neurotransmitter synthesis by human neuroblastoma cell lines and clones. Cancer Res. 38: 3751-3757, 1978. [PubMed: 29704]

## Images



Western blot analysis of Vimentin-S82 (Cat. #AP2739a) in HeLa cell line lysates (35ug/lane). Vimentin (arrow) was detected using the purified Pab.

Western blot analysis of VIM (arrow) using rabbit polyclonal Vimentin Antibody (S82) (Cat. #AP2739a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the VIM gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with Vimentin Antibody (S82) (Cat.#AP2739a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

## Citations

- [Isolation and feeder-free primary culture of four cell types from a single human skin sample](#)
- [Pirfenidone inhibits epithelial-mesenchymal transition in keloid keratinocytes](#)

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