

# Product Datasheet

## Vimentin Antibody (V9) - BSA Free NBP1-97670

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-97670**

Vimentin Antibody (V9) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	V9
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS, pH 7.2
Target Molecular Weight	53.6 kDa

Product Description	
Description	The antibody is shipped at ambient temperature and may be stored at 4C. For prolonged storage prepare appropriate aliquots and store at or below -20C. Prior to use, an aliquot is thawed slowly in the dark at ambient temperature, spun down again and used to prepare working dilutions by adding sterile phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. Working dilutions should be stored at 4C, not refrozen, and preferably used the same day. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product.
Host	Mouse
Gene ID	7431
Gene Symbol	VIM
Species	Human, Rat, Canine, Chicken, Equine, Feline, Sheep
Reactivity Notes	Reacts with Potoroo. Canine reactivity reported in scientific literature (PMID: 24664167). Feline and Equine reactivity reported from a verified customer review.
Marker	Mesenchymal Cells Marker
Specificity/Sensitivity	This antibody reacts exclusively with vimentin, which is expressed in mesenchymal cells and mesenchymal derived tumors e.g. lymphoma, sarcoma and melanoma.
Immunogen	This antibody is a mouse monoclonal IgG1 antibody derived by fusion of PAI Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with vimentin isolated from porcine lens.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot 1:100-1:1000, Flow Cytometry 1:25-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:25-1:200, Immunohistochemistry-Frozen 1:25-1:200, CyTOF-ready



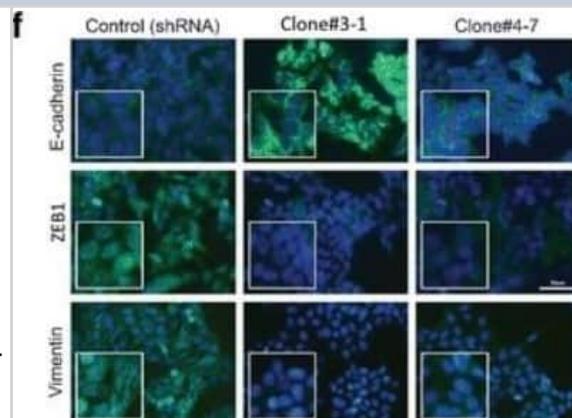
**Application Notes**

For staining paraffin-embedded tissues pretreatment by boiling tissue sections for 10 minutes in 10 mM citrate buffer (pH 6.0) is required. Optimal antibody dilution should be determined by titration; recommended range is 1:25 - 1:200 for flow cytometry, and for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.

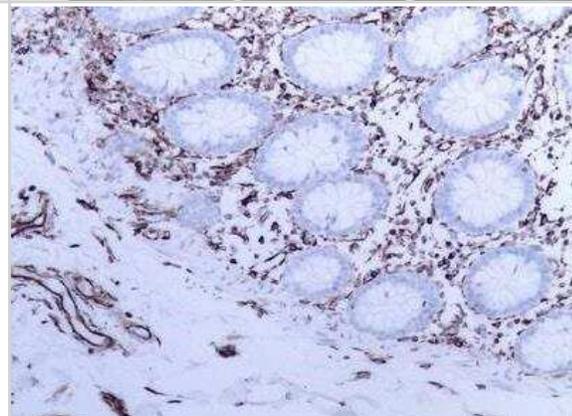
This antibody is CyTOF ready.

**Images**

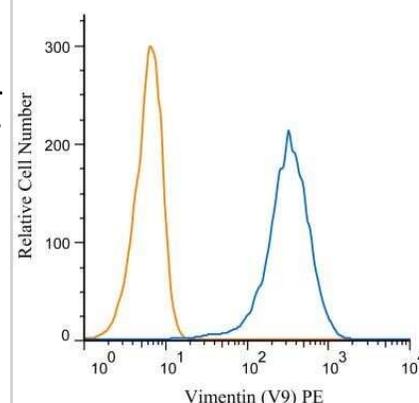
**Immunocytochemistry/Immunofluorescence: Vimentin Antibody (V9) [NBP1-97670]** - The effect of N-BLR knockdown on invasion by specific siRNAs. E-cadherin, vimentin, and ZEB1 were identified in vitro by immunofluorescence with specific antibodies. Immunofluorescence signal of E-cadherin (green color) was markedly increased in both clones. The ZEB1 signal was present in cells with empty vector (green color) but not in clones #3-1 and #4-7. Blue color indicate nuclei. Single green, blue, and merged channel images of ZEB1 are reported in Additional file 3: Figure S9B. Image collected and cropped by CiteAb from the following publication ([//genomebiology.biomedcentral.com/articles/10.1186/s13059-017-1224-0](http://genomebiology.biomedcentral.com/articles/10.1186/s13059-017-1224-0)) licensed under a CC-BY license.



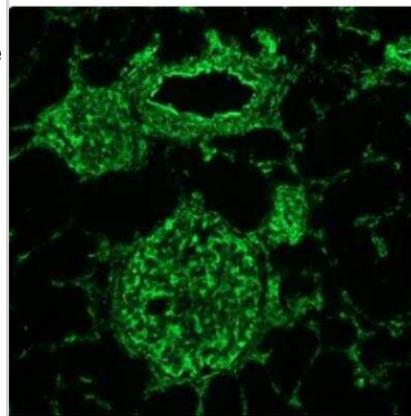
**Immunohistochemistry-Frozen: Vimentin Antibody (V9) [NBP1-97670]** - Strong specific staining of connective tissue cells in a frozen tissue section of human colon. No reactivity in epithelial cells.



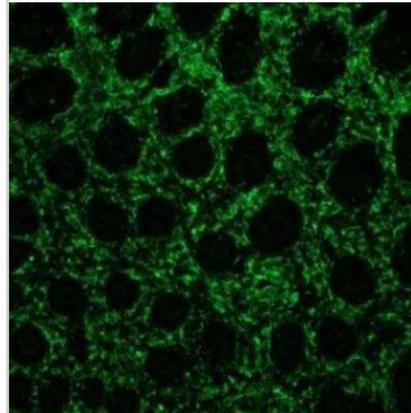
**Flow Cytometry: Vimentin Antibody (V9) [NBP1-97670]** - An intracellular stain was performed on Jurkat cells with Vimentin antibody (V9) NBP1-97670PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin.



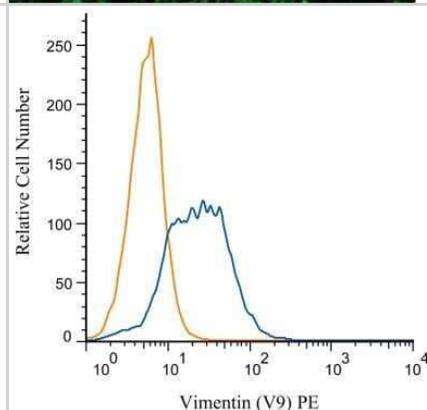
Immunocytochemistry/Immunofluorescence: Vimentin Antibody (V9) [NBP1-97670] - Strong specific staining of glomeruli and connective tissue in human kidney with in a 1:200 dilution. No reactivity in epithelial cells.



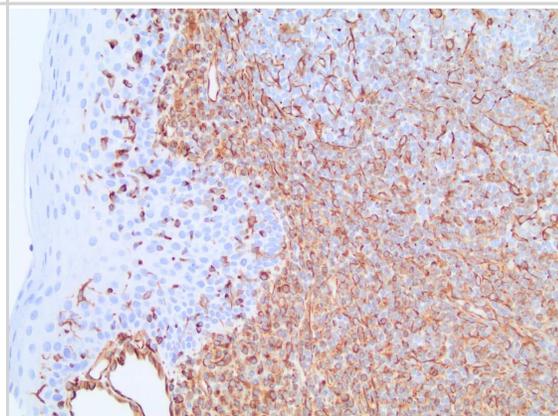
Immunocytochemistry/Immunofluorescence: Vimentin Antibody (V9) [NBP1-97670] - Strong specific staining of connective tissue cells in swine colon with in a 1:200 dilution. No reactivity in epithelial cells.



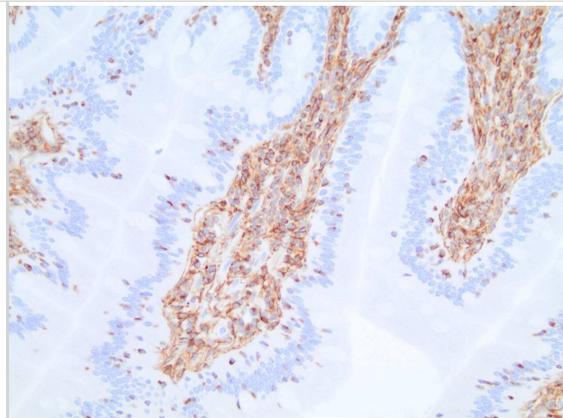
Flow Cytometry: Vimentin Antibody (V9) [NBP1-97670] - Analysis of PE conjugate of NBP1-97670. An intracellular stain was performed on THP-1 cells with Vimentin antibody (V9) NBP1-97670PE (blue) and a matched isotype control NBP2-27287PE (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% s



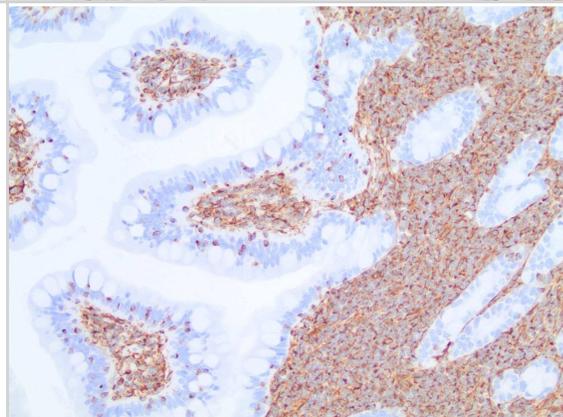
Immunohistochemistry-Paraffin: Vimentin Antibody (V9) [NBP1-97670] - Vimentin immunoreactivity in human tonsil. NBP1-97670 was diluted to 0.5ug/mL and was left on sections for 30m at room temperature. Secondary antibody was Horse-Anti Mouse HRP Veterinary Reagent. Image from verified customer review.



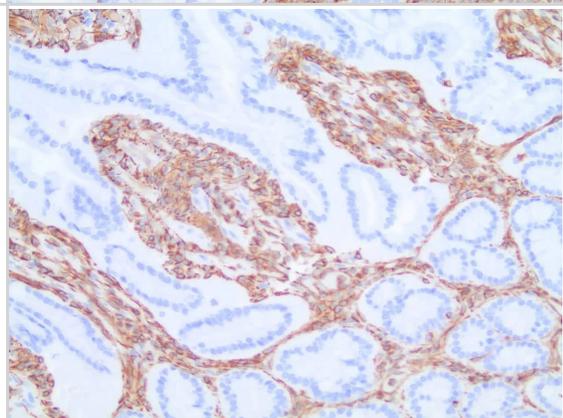
Immunohistochemistry-Paraffin: Vimentin Antibody (V9) [NBP1-97670] - Vimentin immunoreactivity in horse intestine. NBP1-97670 was used at a concentration of 0.5ug/mL and was left on slides for 30m at room temperature. Secondary antibody was Horse Anti-Mouse HRP Veterinary Reagent. Image from verified customer review.



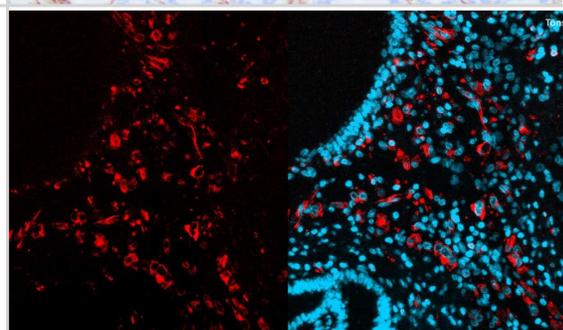
Immunohistochemistry-Paraffin: Vimentin Antibody (V9) [NBP1-97670] - Vimentin immunoreactivity in feline intestine. NBP1-97670 was used at a concentration of 0.5ug/mL. Secondary antibody was Horse Anti-Mouse HRP Veterinary Reagent. Image from verified customer review.



Immunohistochemistry-Paraffin: Vimentin Antibody (V9) [NBP1-97670] - Vimentin immunoreactivity in canine intestine. NBP1-97670 was used at a concentration of 0.5ug/mL and was left on tissue sections for 30m at room temperature. Secondary was Horse Anti-Mouse Veterinary Reagent. Image from verified customer review.



Immunohistochemistry-Paraffin: Mouse Monoclonal Vimentin Antibody (V9) [NBP1-97670] - Vimentin was stained in human FFPE tonsil tissue. HIER antigen retrieval at pH 9 for 20min was performed. Concentration used: 1:100. AF750 conjugated version of the antibody was used (Catalog # NBP1-97670AF750). Image from a verified customer review.



## Publications

Tamai K, Sakai K, Yamaki H et al. iPSC-derived mesenchymal cells that support alveolar organoid development *Cell Reports Methods* 2022-10-24 [PMID: 36313800]

Xie J, Yuan S, Peng L et al. Antitumor immunity targeting fibroblast activation protein- $\alpha$  in a mouse Lewis lung carcinoma model *Oncol Lett* 2020-05-18 [PMID: 32566014]

Rigoutsos I, Lee SK, Nam SY et al. N-BLR, a primate-specific non-coding transcript leads to colorectal cancer invasion and migration. *Genome Biol.* 2017-05-24 [PMID: 28535802]

Hu R, Ling W, Xu W, Han D. Fibroblast-like cells differentiated from adipose-derived mesenchymal stem cells for vocal fold wound healing. *PLoS ONE* 2014-03-25 [PMID: 24664167] (ICC/IF, Canine)





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### **Products Related to NBP1-97670**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-97670PE	Vimentin Antibody (V9) [PE]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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