

Product Datasheet

Vimentin Antibody (RV203) - BSA Free NBP1-97671

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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NBP1-97671

Vimentin Antibody (RV203) - 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	RV203
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, Mouse, Rat, Porcine, Canine, Goat, Hamster
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28249000).
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 SP2/0-Ag14 Mouse myeloma cells with spleen cells from a BALB/c Mouse immunized with a cytoskeletal vimentin extract of calf 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 1:100-1:200, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:500, Immunohistochemistry-Frozen 1:100-1:200, CyTOF-ready



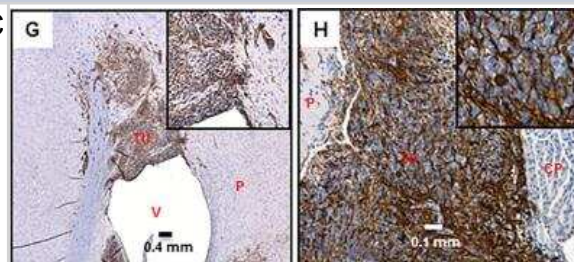
Application Notes

Optimal antibody dilution should be determined by titration; recommended range is 1:100 - 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.

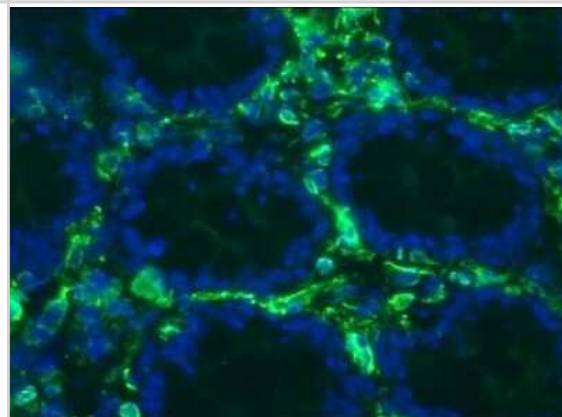
This antibody is CyTOF ready.

Images

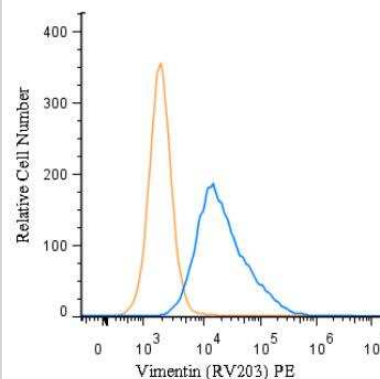
Immunohistochemistry: Vimentin Antibody (RV203) [NBP1-97671] - BTIC markers in our CNS-PNET model tumors. G: Vimentin 5X, insert- 5X digital (LCAS-R-12 weeks post-injection) H: Vimentin 20X, insert- 5X digital (LC26-R-12 weeks post-injection) TU-tumor; P-parenchyma; V-ventricle; CP-choroid plexus. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0173106>), licensed under a CC-BY license.



Immunohistochemistry-Frozen: Vimentin Antibody (RV203) [NBP1-97671] - Frozen section of human colon showing positive staining in connective tissue cells and no reactivity in epithelial cells

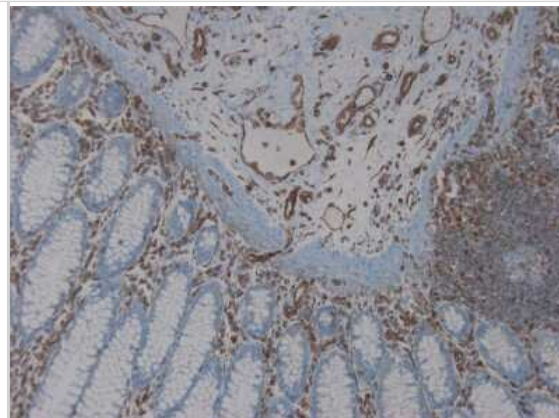


Flow Cytometry: Vimentin Antibody (RV203) [NBP1-97671] - An intracellular stain was performed on HeLa cells with NBP1-97671PE (blue) and a matched isotype control (orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to phycoerythrin.

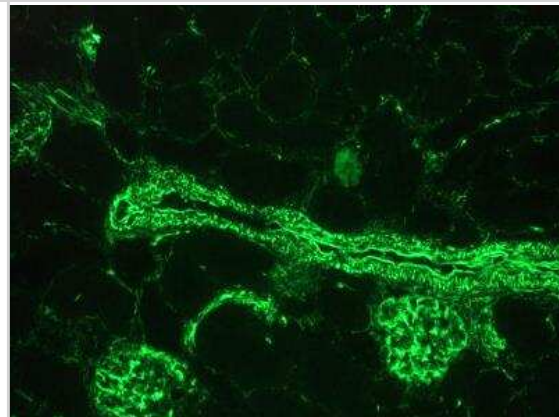


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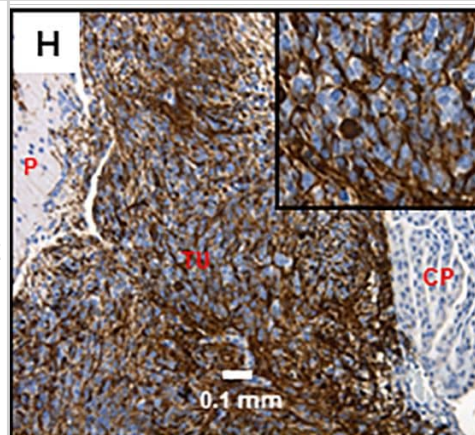
Immunohistochemistry-Paraffin: Vimentin Antibody (RV203) [NBP1-97671] - Paraffin section of human colon



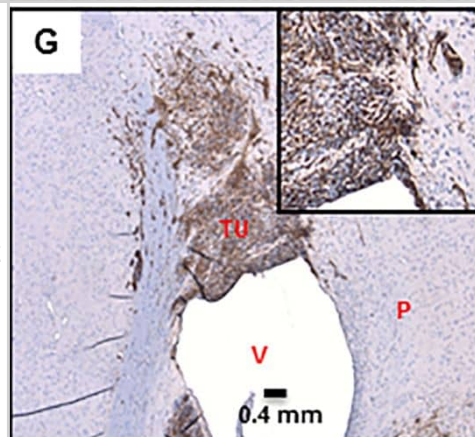
Immunohistochemistry-Frozen: Vimentin Antibody (RV203) [NBP1-97671] - Figure 3. Immunohistochemistry with NBP1-97671 (RV203) on a frozen section of human kidney showing positive staining in blood vessels, glomeruli and connective tissue cells and no reactivity in epithelial cells.



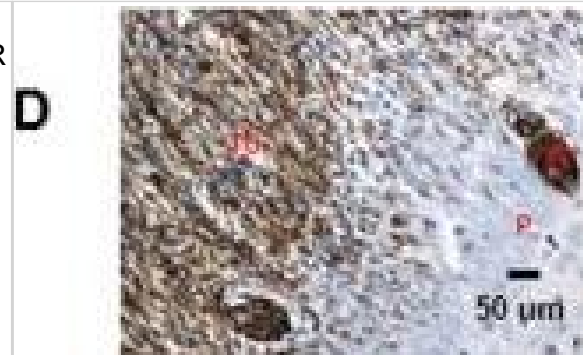
Immunohistochemistry-Paraffin: Vimentin Antibody (RV203) - BSA Free [NBP1-97671] - BTIC markers in our CNS-PNET model tumors. A: Ki67, 20X, insert- 5X digital (LCAS-R-12 weeks post-injection) B: Oct3/4, 40x, insert- 5X digital (LCAS-R-12 weeks post-injection) C: Nestin 20x, insert- 5X digital (LCAS-R-12 weeks post-injection) D: Nestin 40x, insert- 5X digital (LCAS-R-12 weeks post-injection) E: Sox2 40X, insert- 5X digital, (LC26-R-12 weeks post-injection) F: Sox2 40X, insert- 5X digital (LCAS-R-12 weeks post-injection) G: Vimentin 5X, insert- 5X digital (LCAS-R-12 weeks post-injection) H: Vimentin 20X, insert- 5X digital (LC26-R-12 weeks post-injection) TU-tumor; P-parenchyma; V-ventricle; CP-choroid plexus. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0173106>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry-Paraffin: Vimentin Antibody (RV203) - BSA Free [NBP1-97671] - BTIC markers in our CNS-PNET model tumors. A: Ki67, 20X, insert- 5X digital (LCAS-R-12 weeks post-injection) B: Oct3/4, 40x, insert- 5X digital (LCAS-R-12 weeks post-injection) C: Nestin 20x, insert- 5X digital (LCAS-R-12 weeks post-injection) D: Nestin 40x, insert- 5X digital (LCAS-R-12 weeks post-injection) E: Sox2 40X, insert- 5X digital, (LC26-R-12 weeks post-injection) F: Sox2 40X, insert- 5X digital (LCAS-R-12 weeks post-injection) G: Vimentin 5X, insert- 5X digital (LCAS-R-12 weeks post-injection) H: Vimentin 20X, insert- 5X digital (LC26-R-12 weeks post-injection) TU-tumor; P-parenchyma; V-ventricle; CP-choroid plexus. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0173106>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunohistochemistry: Vimentin Antibody (RV203) - BSA Free [NBP1-97671] - Analysis of RG, TCL & the TCL derived tumors(A1, A2) LCAS-R 2nd nsphrs/LCAS-RTL(138) 2nd nsphr, (A3) Tubb3 40x LCAS-RTL(138) 2nd nsphr, (A4) GFAP 40x LCAS-RTL(138) 2nd nsphr; (B1, B2) HE 40x LCAS-R/LCAS-RTL(138) - images show undifferentiated small round blue cells with scarce cytoplasm, (B3) HE 40x (LCAS-RTL(138) SVZ 15 weeks post-injection) - extensive proliferation of undifferentiated embryonal tumor cells infiltrating the adjacent brain parenchyma, (B4) Ki67 40x (LCAS-RTL(138) SVZ 15 weeks post-injection) - high proliferative activity of tumor cells is reflected by over 75% of cells expressing Ki-67, (C1) OCT3/4 40x (LC26-RTL(170) SVZ 12 weeks post-injection) - extensive proliferation of tumor cells invading adjacent brain parenchyma show high expression of OCT3/4 (over 80% of cells), (C2) Sox2 40x (LC26-RTL(170) SVZ 12 weeks post-injection) - extensively expressed in the tumor cells, (C3) PRAME 40x (LCAS-R 12 weeks post-injection) - extensively expressed in the tumor cells, (C4) Nestin 40x (LCAS-RTL(138) 15 weeks post-injection) - extensively expressed in the tumor cells, (D1) Vimentin 40x (LCAS-RTL(138) 15 weeks post-injection) - extensively expressed in the tumor cells within the main tumor mass & in the invading areas, (D2) BLBP 40x (LC26-RTL(170) 16 weeks post-injection) - extensively expressed in the tumor cells, (D3, D4) OTX2 20x, 40x (LC26-RTL(170) 16 weeks post-injection) - extensive expression (over 80% of cells) in tumor cells. TU-tumor; P-parenchyma; PI- perivascular invasion. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.24460>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Niu W, Lim T, Alshihri A et al. Platelet-Derived Growth Factor Stimulated Migration of Bone Marrow Mesenchymal Stem Cells into an Injectable Gelatin-Hydroxyphenyl Propionic Acid Matrix Biomedicines 2021-02-17 [PMID: 33671438]

Kutryb-Zajac B, Jablonska P, Serocki M et al Extracellular Adenine Nucleotide and Adenosine Metabolism in Calcific Aortic Valve Disease. BioRxiv 2019-08-28 [PMID: 32126886] (ICC/IF, FLOW, Human)

Malchenko S, Sredni S, Boyineni J, Bi Y. Characterization of brain tumor initiating cells isolated from an animal model of CNS primitive neuroectodermal tumors. Oncotarget. 2018-02-09 [PMID: 29568390] (IHC-P, Mouse)

Malchenko S, Sredni ST, Bi Y et al. Stabilization of HIF-1a and HIF-2a, up-regulation of MYCC and accumulation of stabilized p53 constitute hallmarks of CNS-PNET animal model. PLoS ONE. 2017-03-01 [PMID: 28249000] (IF/IHC, Mouse)



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Products Related to NBP1-97671

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)
NBP1-97671AF405	Vimentin Antibody (RV203) [Alexa Fluor® 405]

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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