

# Product Datasheet

## Vimentin Antibody (2A52) - BSA Free NBP1-92688

Unit Size: 0.1 ml

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

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**NBP1-92688**

Vimentin Antibody (2A52) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2A52
Preservative	5mM Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	53.6 kDa

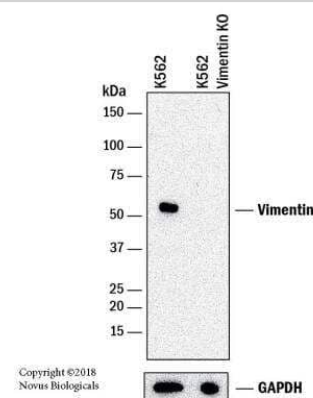
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse Vimentin Antibody (2A52) - BSA Free (NBP1-92688) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Vimentin Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7431
Gene Symbol	VIM
Species	Human, Rat, Mouse (Negative)
Reactivity Notes	Clones 2D1 (NBP1-92687) and 2A52 (NBP1-92688) both failed to detect the target in mouse tissues although they work well on human and rat samples. This allowed us to firmly map the epitope for both antibodies to the peptide SRISLPLPNFSSLNREL, amino acids 409-425 of the human sequence. This peptide is located at the beginning of the non-helical "tail" region of the molecule and the peptide is totally conserved between human and rat and in most mammalian species, including cow, pig, horse, camel, and many monkeys. Interestingly mouse has the peptide SRISLPLPTFSSLNREL divergent by one amino acid, and neither clones bind this peptide. As a result these antibodies can be used to identify human or rat cells in mouse cultures or tissues and may work with other species that also contain this peptide.
Marker	Mesenchymal Cells Marker
Immunogen	Full length recombinant human Vimentin Antibody protein expressed in and purified from E. coli.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockout Validated
Recommended Dilutions	Western Blot 1:10000, Immunohistochemistry 1:5000, Immunocytochemistry/ Immunofluorescence 1:5000, Knockout Validated
Application Notes	This Vimentin (2A52) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western blot, where a band can be seen at approximately 50 kDa.

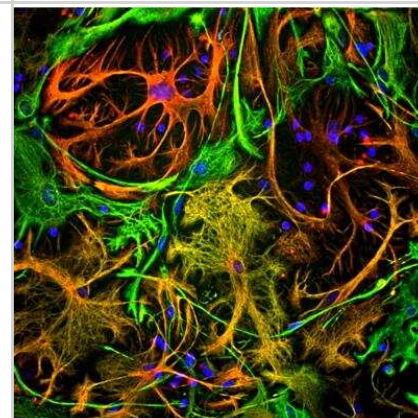


## Images

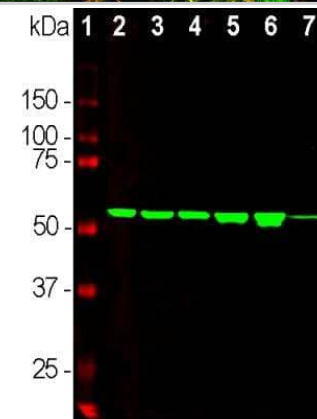
Western Blot: Vimentin Antibody (2A52) [NBP1-92688] - Western blot shows lysates of K562 human Chronic Myelogenous Leukemia parental cell line and Vimentin knockout (KO) K562 cell line. PVDF membrane was probed with 1:10,000 of Mouse Anti-Human Vimentin Monoclonal Antibody (Catalog # NBP1-92688) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for Vimentin at approximately 55 kDa (as indicated) in the parental K562 cell line, but is not detectable in the knockout K562 cell line. This experiment was conducted under reducing conditions.



Immunocytochemistry/Immunofluorescence: Vimentin Antibody (2A52) [NBP1-92688] - Immunocytochemistry/Immunofluorescence: [NBP1-92688] - View of mixed neuron/glia cultures stained with NBP1-92687 (green) and the GFAP rabbit polyclonal (NB300-141, red). Vimentin is expressed alone in fibroblastic and endothelial cells, which are the flattened cells in the middle of the image which appear green. Astrocytes may express primarily GFAP, or GFAP and Vimentin, and so appear red (GFAP only) or golden yellow (GFAP and Vimentin). In cells which express both GFAP and Vimentin, the two proteins assemble to produce heteropolymer filaments.



Western Blot: Vimentin Antibody (2A52) [NBP1-92688] - Analysis of cell and whole brain tissue lysates using mouse mAb to vimentin, NBP1-92688, dilution 1:5,000 in green: [1] protein standard (red), [2] HEK293, [3] HeLa, [4] SH-SY5Y, [5] COS-1, [6] C6, and [7] rat brain. The band at about 50kDa mark corresponds to vimentin protein. The antibody does not recognize mouse vimentin (not shown).



## Publications

Sun Y, Guo W, Xu Y et al. Circulating Tumors Cells from Different Vascular Sites Exhibit Spatial Heterogeneity in Epithelial and Mesenchymal Composition and Distinct Clinical Significance in Hepatocellular Carcinoma. Clin. Cancer Res. 2017-10-25 [PMID: 29070526] (ICC/IF, Human)



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### **Products Related to NBP1-92688**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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