

Product Datasheet

Vimentin Antibody (VM452)

NBP2-29433

Unit Size: 0.1 mg

Store at 4C.

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NBP2-29433

Vimentin Antibody (VM452)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	VM452
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	53.6 kDa

Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33060) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	7431
Gene Symbol	VIM
Species	Human, Porcine, Bovine, Canine, Chicken, Feline, Goat, Mouse (Negative), Rat (Negative)
Reactivity Notes	Does not react with Mouse or Rat.
Marker	Mesenchymal Cell Marker
Specificity/Sensitivity	This monoclonal antibody reacts with a 58kDa protein identified as Vimentin. It shows no cross-reaction with other closely related intermediate filament proteins (IFP however, when used in panels with other antibodies, it is useful for the sub-classification of a given tumor. Expression of Vimentin, when used in conjunction with anti-keratin, is helpful when distinguishing melanomas from undifferentiated carcinomas and large cell lymphomas. All melanomas and Schwannomas react strongly with anti-Vimentin. It labels a variety of mesenchymal cells, including melanocytes, lymphocytes, endothelial cells, and fibroblasts. Non-reactivity of anti-Vimentin is often considered more useful than its positive reactivity, since there are a few tumors that do not contain Vimentin, e.g. hepatoma and seminoma. Anti-Vimentin is also useful as a tissue process control reagent.
Immunogen	Recombinant full-length human vimentin protein (Uniprot: P08670)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, Knockout Validated
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array, Knockout Validated 0.7 ug/ml

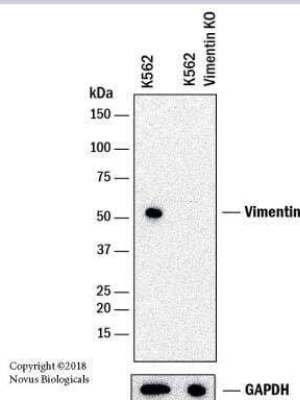


Application Notes

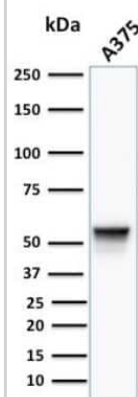
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

Images

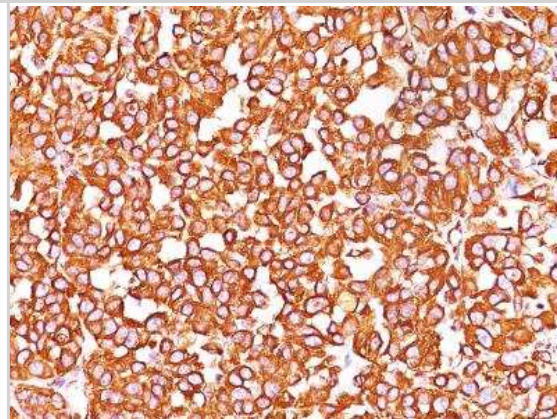
Knockout Validated: Vimentin Antibody (VM452) [NBP2-29433] - Western blot shows lysates of K562 human Chronic Myelogenous Leukemia parental cell line and Vimentin knockout (KO) K562 cell line. PVDF membrane was probed with 0.7 ug/mL of Mouse Anti-Human Vimentin Monoclonal Antibody (Catalog # NBP2-29433) 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.



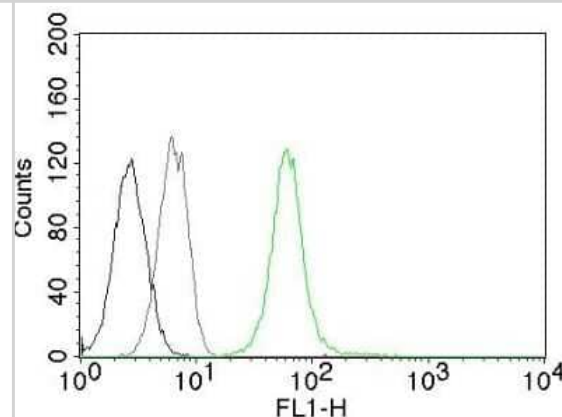
Western Blot: Vimentin Antibody (VM452) [NBP2-29433] - Western Blot Analysis of human A375 cell lysate using Vimentin Antibody (VM452).



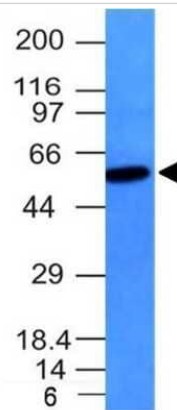
Immunohistochemistry-Paraffin: Vimentin Antibody (VM452) [NBP2-29433] - Formalin-paraffin human melanoma stained with Vimentin Ab (VM452).



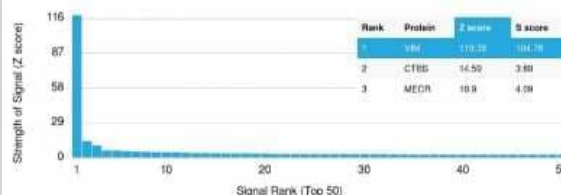
Flow Cytometry: Vimentin Antibody (VM452) [NBP2-29433] - Flow Cytometry of human Vimentin on Jurkat cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled Vimentin Antibody (VM452).



Western Blot: Vimentin Antibody (VM452) [NBP2-29433] - Western Blot Analysis Raji cell lysate Vimentin Antibody (VM452).



Protein Array: Vimentin Antibody (VM452) [NBP2-29433] - Analysis of Protein Array containing more than 19,000 full-length human proteins using Vimentin Antibody (VM452). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5.



Publications

Yoshida K, Miyoshi T, Murakami T Multicystic peritoneal tumor in two layer hens J. Vet. Med. Sci. 2020-01-13 [PMID: 31932520] (IF/IHC, Chicken)



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Products Related to NBP2-29433

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-35139-100ug	Recombinant Human Vimentin Protein

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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