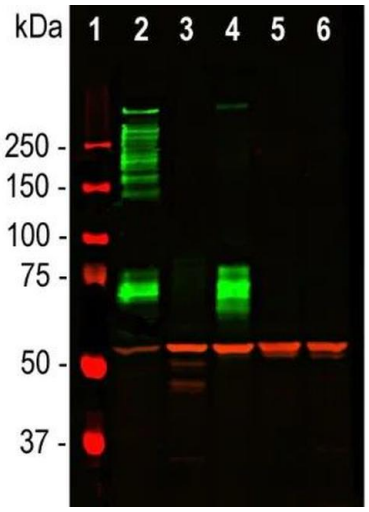
Vimentin Polyclonal Antibody

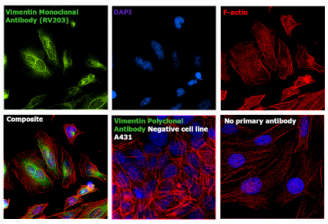
Product Details	
Size	100 µL
Species Reactivity	Bovine, Dog, Chicken, Horse, Human, Mouse, Pig, Rat
Published Species	Mouse, Human
Host/Isotype	Chicken / IgY
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	The immunogen used to generate our antibody was recombinant vimentin purified from E. coli.
Form	Liquid
Concentration	16.6 mg/mL
Purification	IgY fraction
Storage buffer	PBS
Contains	5mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2257294

Applications	Tested Dilution	Publications
Western Blot (WB)	1:10,000-1:20,000	-
Immunohistochemistry (IHC)	-	7 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:150	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:200-1:5000	1 Publication

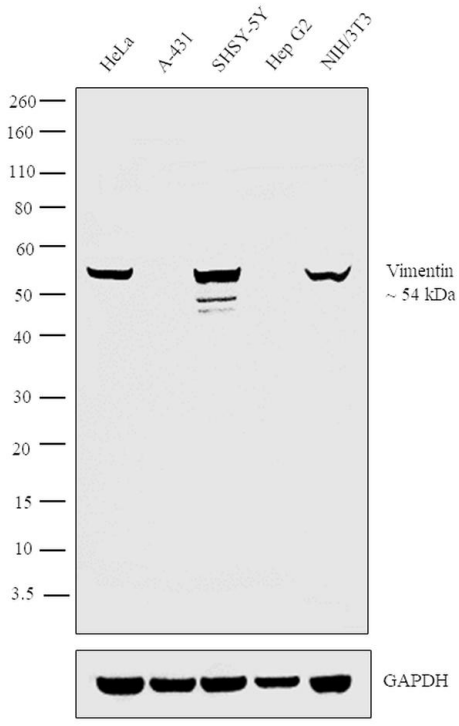
Product Images For Vimentin Polyclonal Antibody



Vimentin Antibody (PA1-16759) in WB
Western blot analysis of Vimentin in tissue and cell lysates. Samples were incubated in Vimentin polyclonal antibody (Product # PA1-16759 using a dilution of 1:5000. Antibody in red. [1] protein standard (red), [2] rat whole brain lysate, [3] HeLa, [4] SH-SY5Y, [5] HEK293, and [6] NIH-3T3 cell lysates. NB300-223 binds to the vimentin protein showing a single band at ~50 kDa. The blot was simultaneously probed with mouse mAb to MAP2C/D, dilution 1:5000 in green, revealing multiple bands around 280 kDa that correspond to full length MAP2A /2B isotypes, and ~70 kDa bands which are MAP2C/D isotypes. MAP2 isotypes are seen only in extracts containing neuronal lineage cells.



Vimentin Antibody (PA1-16759)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Vimentin Polyclonal Antibody (Product # PA1-16759) showed expression of Vimentin in HeLa compared to A-431. {RE}



Vimentin Antibody (PA1-16759) in WB
Western blot analysis was performed on Whole cell extracts (30 µg lysate) of HeLa (Lane 1), A-431 (Lane 2), SHSY-5Y (Lane 3), Hep G2 (Lane 4) and NIH /3T3 (Lane 5). The blot was probed with Anti-Vimentin Polyclonal Antibody (Product # PA1-16759, 1:2000 dilution) and detected by chemiluminescence using Goat anti-Chicken IgY (H+L) Secondary Antibody, HRP (Product # A16054, 0.25 µg/ml, 1:4000 dilution). A 54 kDa band corresponding to Vimentin was observed across all the cell lines positive for Vimentin (Lanes 1, 3 and 5), while this band was absent in the cell lines which do not express Vimentin protein (Lanes 2 and 4).

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8 References

Immunohistochemistry (7)

Neuron

RhoA drives actin compaction to restrict axon regeneration and astrocyte reactivity after CNS injury.

"PA1-16759 was used in Immunohistochemistry to demonstrate how extracellular inhibitors regulate axon regeneration, shed light on the capacity of reactive astrocytes to be growth inhibitory after CNS injury, and reveal cell-specific RhoA targeting as a promising therapeutic avenue."

Authors: Stern S,Hilton BJ,Burnside ER,Dupraz S,Handley EE,Gonyer JM,Brakebusch C,Bradke F

Year
2021

Species
Mouse

International journal of molecular sciences

4-methylumbelliferone Prevents Liver Fibrosis by Affecting Hyaluronan Deposition, FSTL1 Expression and Cell Localization.

"PA1-16759 was used in Immunohistochemistry to provide insight in the alleviation of CCl4 induced liver fibrosis by 4-methylumbelliferone through the reduction of hyaluronan deposition, dowregulation of FSTL1 expression and suppression of hepatic stellate cell trans-differentiation and altered macrophage localisation."

Authors: Andreichenko IN,Tsitrina AA,Fokin AV,Gabdulkhakova AI,Maltsev DI,Perelman GS,Bulgakova EV,Kulikov AM, Mikaelyan AS,Kotelevtsev YV

Year
2019

Species
Mouse

Dilution
1:300

View more IHC references on thermofisher.com

Immunocytochemistry (1)

Virology

NF-B activation is cell type-specific in the heart.

"Published figure using Vimentin polyclonal antibody (Product # PA1-16759) in Immunofluorescence"

Authors: Rivera-Serrano EE,Sherry B

Year
2017

Species
Mouse

Dilution
1:2,000

More applications with references on thermofisher.com