

Vimentin Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 61 and 426 of Human Vimentin
Form	Liquid
Concentration	0.11 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544707

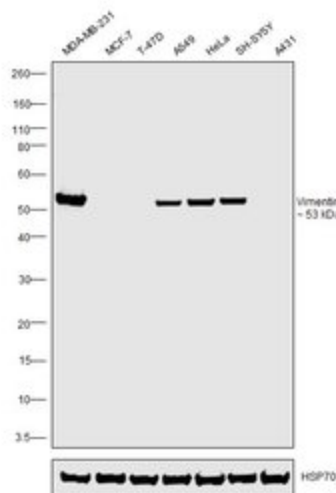
Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:50,000	5 Publications
Immunohistochemistry (IHC)	Assay-dependent	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	5 Publications
Immunoprecipitation (IP)	1:100-1:500	1 Publication

Product Specific Information

Recommended positive controls: 293T, HeLa, MDA-MB-231, U87-MG, SK-N-SH, IMR32, SK-N-AS, NIH-3T3, A549.

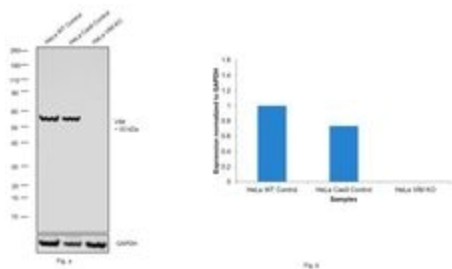
Predicted reactivity: Mouse (98%), Rat (98%), Xenopus laevis (85%), Dog (98%), Chicken (92%), Chimpanzee (99%), Bovine (98%), Guinea pig (97%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.



Vimentin Antibody (PA5-27231)

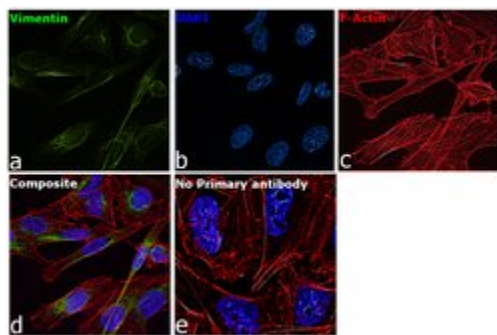
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines owing to their inherent genetic constitution. Relative expression of Vimentin was observed in High in MDA-MB-231, low or negative in MCF-7 and T-47D. Similarly it was observed high in HeLa and low or negative in A-431 using Anti-Vimentin Polyclonal Antibody (Product # PA5-27231) in Western Blot. (Ref: <https://doi.org/10.1371/journal.pone.0135851>) Relative expression validation info.



Vimentin Antibody (PA5-27231)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in Vimentin KO cell line compared to control cell line using Anti-Vimentin Polyclonal Antibody (Product # PA5-27231). Knockout validation info.

Product Images For Vimentin Polyclonal Antibody



Vimentin Antibody (PA5-27231) in ICC/IF

Immunofluorescence analysis of Vimentin was performed using 70 confluent log phase MDA-MB-231 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Vimentin Polyclonal Antibody (Product # PA5-27231) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing cytoskeleton localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

14 References

Western Blot (5)

American journal of cancer research

Vimentin acetylation is involved in SIRT5-mediated hepatocellular carcinoma migration.

"PA5-27231 was used in Immunoprecipitation to study the molecular mechanism of Sirtuin in hepatocellular carcinoma migration."

Authors: Guo D,Song X,Guo T,Gu S,Chang X,Su T,Yang X,Liang B,Huang D

Species
Human

Dilution
Not Cited

Year
2020

BMC cancer

FAT4 silencing promotes epithelial-to-mesenchymal transition and invasion via regulation of YAP and -catenin activity in ovarian cancer.

"PA5-27231 was used in Western Blotting to examine the role of FAT4 in proliferation and metastasis, and its mechanisms of interaction in these processes."

Authors: Malgundkar SH,Burney I,Al Moundhri M,Al Kalbani M,Lakhtakia R,Okamoto A,Tamimi Y

Species
Human
Not Applicable

Dilution
1:200
Not Cited

Year
2020

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Immunohistochemistry (3)

American journal of cancer research

Vimentin acetylation is involved in SIRT5-mediated hepatocellular carcinoma migration.

"PA5-27231 was used in Immunoprecipitation to study the molecular mechanism of Sirtuin in hepatocellular carcinoma migration."

Authors: Guo D,Song X,Guo T,Gu S,Chang X,Su T,Yang X,Liang B,Huang D

Species
Human

Dilution
Not Cited

Year
2020

Development (Cambridge, England)

Periconceptional alcohol exposure causes female-specific perturbations to trophoblast differentiation and placental formation in the rat.

"PA5-27231 was used in Immunohistochemistry to show periconceptional alcohol exposure causes reduced placental volume at embryonic day 15 due to affecting trophoblast differentiation, embryo-uterine communication, and formation of the placental vasculature."

Authors: Kalisch-Smith JI,Steane SE,Simmons DG,Pantaleon M,Anderson ST,Akison LK,Wlodek ME,Moritz KM

Species
Not Applicable

Dilution
1:200

Year
2019

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ICC/IF (5)

IP (1)

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