

H3K27me3 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat, Zebrafish
Published Species	Rat, Bovine, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to a region within amino acids 22 and 36 of Human Histone H3
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 1% BSA, 20% glycerol
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_2549290

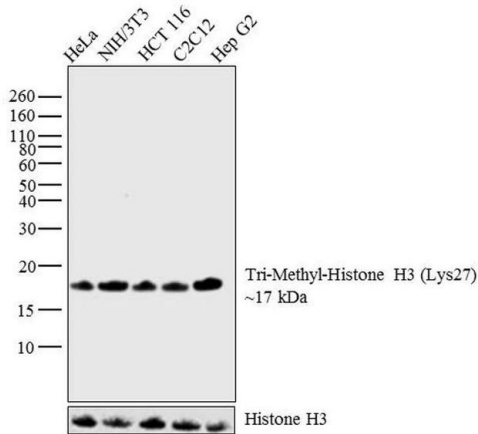
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	3 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:100-1:1,000	-
Immunohistochemistry - Free Floating (IHC (Free))	1:100-1:500	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	1 Publication
ChIP assay (ChIP)	-	3 Publications
Peptide array (Array)	1:2,000	-
Dot blot (DB)	Assay-dependent	-
Immunomicroscopy (IM)	Assay-dependent	-

Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, Jurkat, Raji, K562, THP-1, Neuro 2A, C8D30, NIH-3T3, Raw264.7, C2C12.

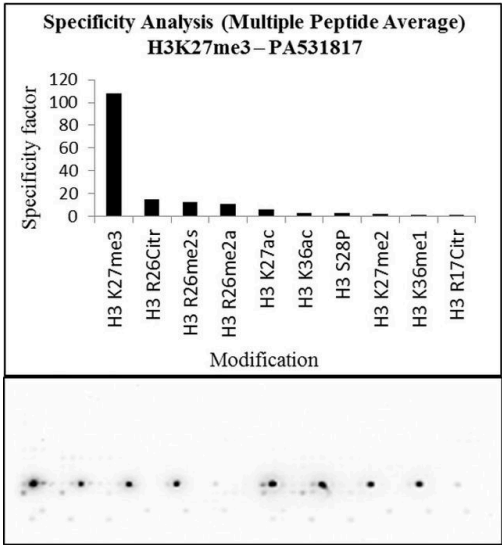
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For H3K27me3 Polyclonal Antibody



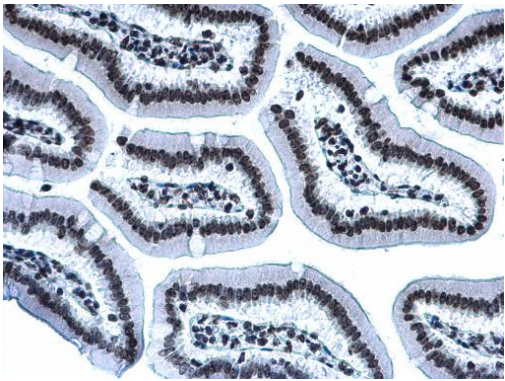
H3K27me3 Antibody (PA5-31817) in WB

Western blot analysis was performed on acid extracts (20 µg lysate) of HeLa (Lane 1), NIH/3T3 (Lane 2), HCT 116 (Lane 3), C2C12 (Lane 4) and Hep G2 (Lane 5). The blot was probed with Anti-Tri-Methyl-Histone H3 (Lys27) (Product # PA5-31817, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 17 kDa band corresponding to Tri-Methyl-Histone H3 (Lys27) was observed across the cell lines tested.



H3K27me3 Antibody (PA5-31817)

Antibody specificity for modified targets can be established using peptide arrays by quantifying detection of the target protein along with closely related proteins. Peptide array of Histone H3K27me3 using Anti-Tri-Methyl-Histone H3 (Lys27) Antibody: An array of the specific peptide and other relevant peptides when tested using Anti-Tri-Methyl-Histone H3 (Lys27) Polyclonal Antibody (Product # PA5-31817), showed that the Histone H3K27me3 modification was specifically recognized by the antibody. {ARRAY}



H3K27me3 Antibody (PA5-31817) in IHC (P)

Histone H3K27me3 (trimethyl Lys27) antibody detects Histone H3K27me3 (trimethyl Lys27) protein at nucleus on mouse duodenum by immunohistochemical analysis. Sample: Paraffin-embedded mouse duodenum. Histone H3K27me3 (trimethyl Lys27) antibody (Product # PA5-31817) diluted at 1:500. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

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Western Blot (3)

<p>Redox biology</p> <p>Selenium nanoparticles modulate histone methylation via lysine methyltransferase activity and S-adenosylhomocysteine depletion.</p> <p>"PA5-31817 was used in Western Blotting to provide important new insights into the action of selenium nanoparticles."</p> <p>Authors: Toubhans B,Alkafri N,Quintela M,James DW,Bissardon C,Gazze S,Knodel F,Proux O,Gourlan AT,Rathert P, Bohic S,Gonzalez D,Francis LW,Charlet L,Conlan RS</p>	<p>Year 2023</p> <p>Species Human</p>
<p>Journal of gastroenterology and hepatology</p> <p>Antagonizing EZH2 combined with vitamin D3 exerts a synergistic role in anti-fibrosis through bidirectional effects on hepatocytes and hepatic stellate cells.</p> <p>"PA5-31817 was used in Immunohistochemistry and Western Blotting to investigate whether vitamin D3 (VD3) supplementation is associated with improved liver fibrosis."</p> <p>Authors: Zhang Q,Jia R,Chen M,Wang J,Huang F,Shi M,Sheng H,Xu L</p>	<p>Year 2023</p> <p>Species Rat</p>

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Immunohistochemistry (2)

<p>Journal of gastroenterology and hepatology</p> <p>Antagonizing EZH2 combined with vitamin D3 exerts a synergistic role in anti-fibrosis through bidirectional effects on hepatocytes and hepatic stellate cells.</p> <p>"PA5-31817 was used in Immunohistochemistry and Western Blotting to investigate whether vitamin D3 (VD3) supplementation is associated with improved liver fibrosis."</p> <p>Authors: Zhang Q,Jia R,Chen M,Wang J,Huang F,Shi M,Sheng H,Xu L</p>	<p>Year 2023</p> <p>Species Rat</p>
<p>Journal of translational medicine</p> <p>Identification of key methylation differentially expressed genes in posterior fossa ependymoma based on epigenomic and transcriptome analysis.</p> <p>"PA5-31817 was used in Immunohistochemistry to provide new ideas for EPN-PF treatment."</p> <p>Authors: Wang G,Jia Y,Ye Y,Kang E,Chen H,Wang J,He X</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:100</p>

More applications with references on thermofisher.cn

- ICC/IF (1)
- ChIP (3)

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