

H3K4me1 Polyclonal Antibody

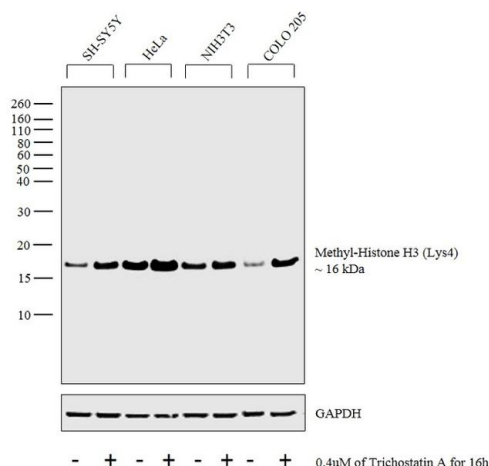
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Xenopus, Zebrafish
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Raised against histone H3 containing the monomethylated lysine 4 (H3K4me1), using a KLH-conjugated synthetic peptide.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	whole serum
Contains	<0.1% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2533854

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunocytochemistry (ICC/IF)	1:100	-
ELISA (ELISA)	1:100	-
ChIP assay (ChIP)	-	1 Publication
Peptide array (Array)	1:1,000	-
Dot blot (DB)	1:50,000	-

Product Images For H3K4me1 Polyclonal Antibody

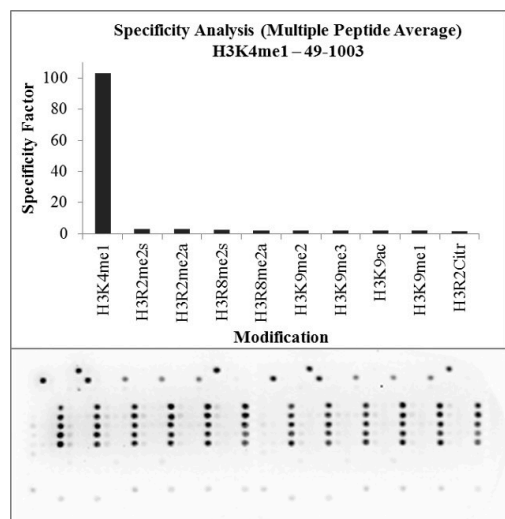
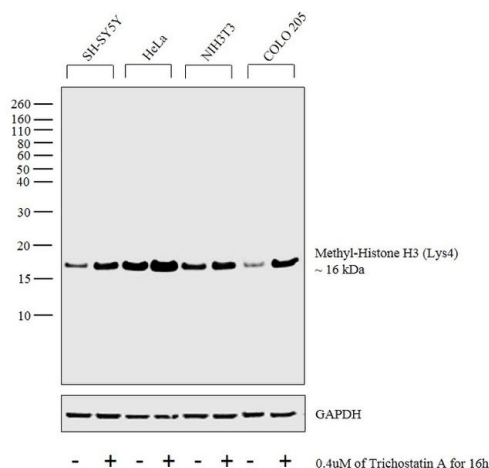
H3K4me1 Antibody (49-1003) in WB

Western blot analysis was performed on modified whole cell extracts (1% SDS) (30 µg lysate) of SH-SY5Y (Lane 1), SH-SY5Y treated with TrichostatinA (0.4 µg/mL for 16h) (Lane 2), HeLa (Lane 3), HeLa treated with TrichostatinA (0.4 µg/mL for 16h) (Lane 4), NIH3T3 (Lane 5), NIH3T3 treated with TrichostatinA (0.4 µg/mL for 16h) (Lane 6), COLO 205 (Lane 7) and COLO 205 treated with TrichostatinA (0.4 µg/mL for 16h) (Lane 8). The blot was probed with Anti-Methyl-Histone H3 (Lys4) Polyclonal Antibody (Product # 49-1003, 1:1,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4,000 dilution). A 16 kDa band corresponding to Methyl-Histone H3 (Lys4) was observed in all cell lines tested and was induced upon Trichostatin A treatment.



H3K4me1 Antibody (49-1003)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis of Methyl-Histone H3 (Lys4) using with Anti-Methyl-Histone H3 (Lys4) Polyclonal Antibody (Product # 49-1003) shows an increase in Methyl-Histone H3 (Lys4) upon Trichostatin A treatment. {TM}



H3K4me1 Antibody (49-1003)

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 H3K4me1 using Anti-Methyl-Histone H3 (Lys4) Antibody: An array of the specific peptide and other relevant peptides when tested using Anti-Methyl-Histone H3 (Lys4) Polyclonal Antibody (Product # 49-1003), showed that the Histone H3K4me1 modification was specifically recognized by the antibody. {ARRAY}

1 Reference

ChIP assay (1)

Experimental cell research	Year 2016
DNA methylation and not H3K4 trimethylation dictates the expression status of miR-152 gene which inhibits migration of breast cancer cells via DNMT1/CDH1 loop.	Species Human
"491003 was used in ChIP assay to clarify the link between miR-152 and CDH1 function"	
Authors: Sengupta D, Deb M, Rath SK, Kar S, Parbin S, Pradhan N, Patra SK	

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