

# H3K4me3 Polyclonal Antibody

## Product Details

Size	50 µg
Species Reactivity	C. elegans, Chicken, Human, Mouse, Xenopus
Published Species	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic trimethylated peptide surrounding Lysine 4 of human Histone H3.2
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 30% glycerol
Contains	0.01% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544505

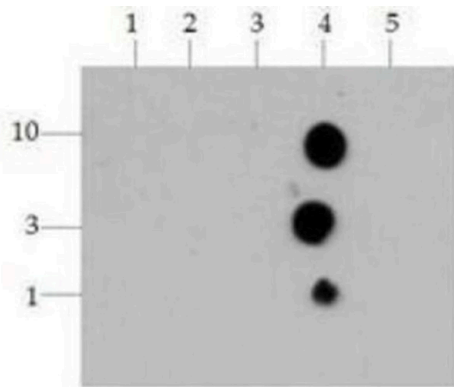
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	-
Immunohistochemistry (IHC)	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	1:500	-
ChIP assay (ChIP)	2-5 µg per million cells	3 Publications
Peptide array (Array)	1:1,000	-
Dot blot (DB)	1:1,000	-

## Product Specific Information

This antibody is predicted to react with many species including rat, chicken, xenopus, drosophila, and plant based on 100% sequence homology.

## Product Images For H3K4me3 Polyclonal Antibody

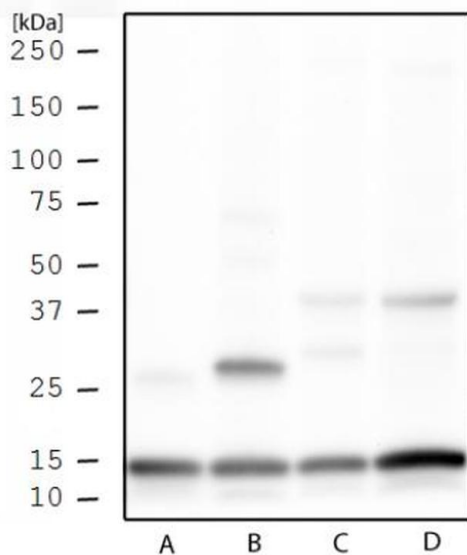




1. K4
2. K4-KMe1
3. K4-KMe2
4. K4-KMe3
5. K23-KMe3

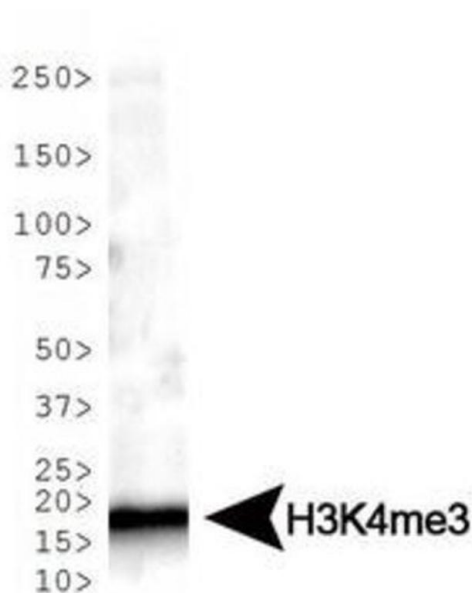
### H3K4me3 Antibody (PA5-27029)

Dot Blot of the specific peptide and other relevant peptides when tested using Tri-Methyl-Histone H3 (Lys4) Polyclonal Antibody (Product # PA5-27029), showed that Tri-Methyl-Histone H3 (Lys4) was specifically recognized by the antibody. {ARRAY}



### H3K4me3 Antibody (PA5-27029) in WB

Western blot analysis of H3K4me3 in HeLa histone prep (A), NIH 3T3 histone prep (B), HeLa whole cell extract (C), and NIH 3T3 whole cell extract (D). Samples were incubated in H3K4me3 polyclonal antibody (Product # PA5-27029) using a dilution of 1 µg/mL. Observed molecular weight is ~15 kDa.



### H3K4me3 Antibody (PA5-27029) in WB

Western blot analysis of H3K4me3 in *C. elegans* embryo nuclear extract. Samples were incubated in H3K4me3 polyclonal antibody (Product # PA5-27029). Observed molecular weight is ~17 kDa.



### 3 References

<b>Scientific reports</b>	<b>Year</b> 2022
<b>WIN site inhibition disrupts a subset of WDR5 function.</b>	<b>Species</b> Human
<p>"PA5-27029 was used in Chromatin immunoprecipitation to show that WIN site inhibition disables only a specific subset of WDR5 activity, and that H3K4me changes induced by WDR5 depletion do not explain accompanying transcriptional responses."</p> <p>Authors: Siladi AJ,Wang J,Florian AC,Thomas LR,Creighton JH,Matlock BK,Flaherty DK,Lorey SL,Howard GC,Fesik SW,Weissmiller AM,Liu Q,Tansey WP</p>	

**Species**  
Mouse

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