Anti-Di-Methyl-Histone H3-K79 antibody (STJ23994)

GENERAL INFORMATION

Product Type	Primary antibodies
Applications	WB/IHC-P/IF/ICC/IP/ELISA/ChIP/ChIP-seq
Host / Source	Rabbit
Reactivity	Human/Mouse/Rat/Other

PRODUCT PROPERTIES

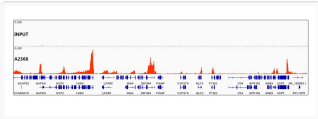
Clonality	Polyclonal
Concentration	Lot specific
Conjugation	Unconjugated
Purification	Affinity purification
Dilution Range	WB:1:500-1:1000 IHC-P:1:50-1:100 IF/ICC:1:50-1:200 IP:0.5 Mu g-4 Mu g antibody for 200 Mu g-400 Mu g extracts of whole cells ELISA:Recommended starting concentration is 1 Mu g/mL. Please optimize the concentration based on your specif
Formulation	PBS with 0.09% Sodium Azide, 50% Glycerol, pH 7.3.
Isotype	IgG
Molecular Weight	Protein Mw: 16kDa Observed Mw: 17kDa
Storage Instruction	Store at-20°C for up to 1 year from the date of receipt, and avoid repeat freeze-thaw cycles.

TARGET INFORMATION

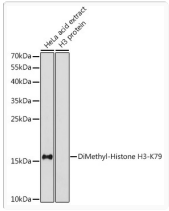
Gene ID	8290 8350/8351/8352/8353/8354/8355/8356/8357/8358/8968
Gene Symbol	H3-4 H3C1.H3C2.H3C3.H3C4.H3C6.
UniProt ID	H31T_HUMAN H31_HUMAN
Immunogen Sequence	DFKTD
Specificity	A synthetic dimethylated peptide around K79 of human Histone H3 (NP_003520.1).

ADDITIONAL INFORMATION

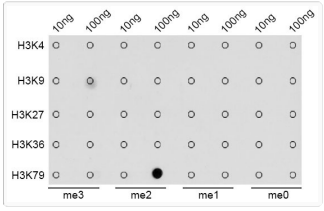
Note	STRICTLY FOR FURTHER SCIENTIFIC RESEARCH USE ONLY (RUO). MUST NOT TO BE USED IN DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.



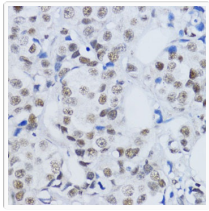
Chromatin immunoprecipitations were performed with cross-linked chromatin from K-562 cells and DiMethyl-Histone H3-K79 rabbit polyclonal antibody (STJ23994). The ChIP sequencing results indicate the enrichment pattern of DiMethyl-Histone H3-K79 in selected genomic region and representative gene loci (GAPDH) , as shown in figure.



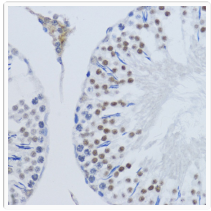
Western blot analysis of extracts of HeLa cells, using DiMethyl-Histone H3-K79 antibody (STJ23994) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-rabbit IgG (H+L) (STJS000856) at 1:10000 dilution. Lysates/proteins: 25 Mu g per lane. Blocking buffer: 3% non-fat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 90s.



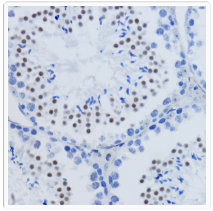
Dot-blot analysis of all sorts of methylation peptides using DiMethyl-Histone H3-K79 antibody (STJ23994).



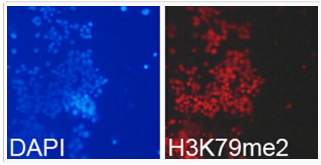
Immunohistochemistry analysis of paraffin-embedded human mammary cancer using DiMethyl-Histone H3-K79 antibody (STJ23994) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7. 2 before commencing with immunohistochemistry staining protocol.



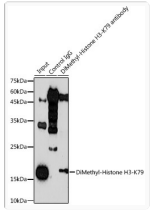
Immunohistochemistry analysis of paraffin-embedded rat testis using DiMethyl-Histone H3-K79 antibody (STJ23994) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7. 2 before commencing with immunohistochemistry staining protocol.



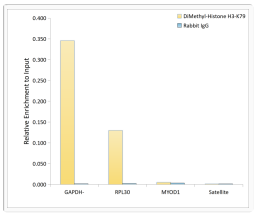
Immunohistochemistry analysis of paraffin-embedded mouse testis using DiMethyl-Histone H3-K79 antibody (STJ23994) at dilution of 1:200 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7. 2 before commencing with immunohistochemistry staining protocol.



Immunofluorescence analysis of 293T cells using DiMethyl-Histone H3-K79 antibody (STJ23994). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 Mu g extracts of HeLa cells using 3 Mu g DiMethyl-Histone H3-K79 antibody (STJ23994). Western blot was performed from the immunoprecipitate using DiMethyl-Histone H3-K79 antibody (STJ23994) at a dilution of 1:1000.



Chromatin immunoprecipitation analysis of extracts of MCF7 cells, using DiMethyl-Histone H3-K79 antibody (STJ23994) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.

St Johns Laboratory Ltd, Knowledge Dock Business Centre, University Way, London, E16 2RD I Tel: 0208 223 3081