Anti-Mono-Methyl-Histone H3-K18 antibody [S1MR] (STJ11103411)

GENERAL INFORMATION

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

PRODUCT PROPERTIES

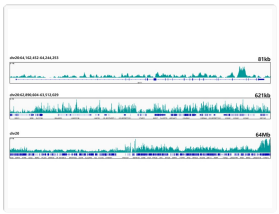
Clonality	Monoclonal
Concentration	Lot specific
Conjugation	Unconjugated
Purification	Affinity purification
Dilution Range	WB:1:500-1:1000 DB:1:500-1:1000 IHC-P:1:50-1:200 IF/ICC:1:50-1:200 IP:0.5 Mu g-4 Mu g antibody for 200 Mu g-400 Mu g extracts of whole cells ELISA:Recommended starting concentration is 1 Mu g/mL. Please optimize the concentration
Formulation	PBS with 0.02% Sodium Azide, 0.05% BSA, 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

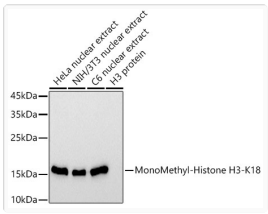
Gene ID	8350/8351/8352/8353/8354/8355/8356/8357/8358/8968 8290
Gene Symbol	H3C1.H3C2.H3C3.H3C4.H3C6.H3C7.H3C8.H3C10.H3C11.H3C12 H31_HUMAN H31T_HUMAN
Immunogen Sequence	APRKQ
Specificity	A synthetic monomethylated peptide around K18 of human histone H3 (P68431).

ADDITIONAL INFORMATION

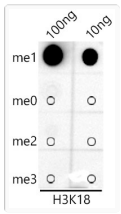
Note	STRICTLY FOR FURTHER SCIENTIFIC RESEARCH USE ONLY (RUO). MUST NOT TO BE USED IN DIAGNOSTIC OR THERAPEUTIC APPLICATIONS.



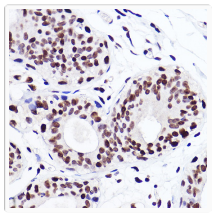
CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina (RK20265) from 10^5 K562 cells with 1 Mu g MonoMethyl-Histone H3-K18 rabbit monoclonal antibody (STJ11103411) , along with a Goat Anti-rabbit IgG (H+L). The CUT&Tag results indicate the enrichment pattern of H3K18Me1 in representative gene loci (MYT1) , as shown in figure.



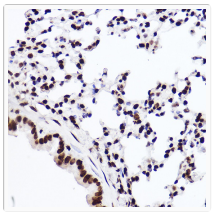
Western blot analysis of extracts of various cell lines, using MonoMethyl-Histone H3-K18 antibody (STJ11103411) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-rabbit IgG (H+L) (STJS000856) at 1:10000 dilution. Lysates/proteins: 25 Mu g per lane. Blocking buffer: 3% non-fat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 30s.



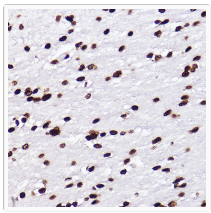
Dot-blot analysis of all sorts of peptides using MonoMethyl-Histone H3-K18 antibody (STJ11103411) at 1:1000 dilution.



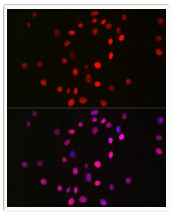
Immunohistochemistry analysis of paraffin-embedded human breast cancer using MonoMethyl-Histone H3-K18 rabbit monoclonal antibody (STJ11103411) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6. 0 before commencing with immunohistochemistry staining protocol.



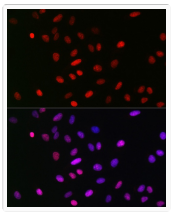
Immunohistochemistry analysis of paraffin-embedded mouse lung using MonoMethyl-Histone H3-K18 rabbit monoclonal antibody (STJ11103411) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6. 0 before commencing with immunohistochemistry staining protocol.



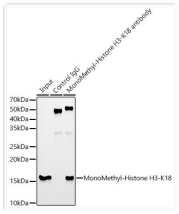
Immunohistochemistry analysis of paraffin-embedded rat brain using MonoMethyl-Histone H3-K18 rabbit monoclonal antibody (STJ11103411) at dilution of 1:100 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6. 0 before commencing with immunohistochemistry staining protocol.



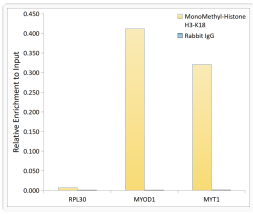
Immunofluorescence analysis of NIH/3T3 cells using MonoMethyl-Histone H3-K18 rabbit monoclonal antibody (STJ11103411) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U-2 OS cells using MonoMethyl-Histone H3-K18 rabbit monoclonal antibody (STJ11103411) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 600 Mu g extracts of 293F cells using 5 Mu g MonoMethyl-Histone H3-K18 antibody (STJ11103411). Western blot was performed from the immunoprecipitate using MonoMethyl-Histone H3-K18 antibody (STJ11103411) at a dilution of 1:1000.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone H3-K18 antibody (STJ11103411) 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.