MonoMethyl-Histone H3-K18 Monoclonal Antibody

CAB20680

Description

This MonoMethyl-Histone H3-K18 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB20680
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	H3t, H3.4, H3/g, H3FT, H3C16, HIST3H3, MonoMethyl-Histone H3-K18
Clone:	ARC2621
Applications:	WB IHC-P IF/ICC IP ChIP ELISA DB CUT&Tag
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat, Other (Wide Range Predicted)

Antibody Data

Gene ID:	8290 8350
Uniprot:	-
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	17 kDa
Calculated MW:	15 kDa

Preparation & Storage

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

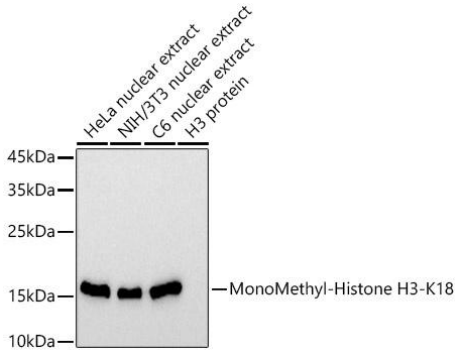
Positive Sample: HeLa nuclear extract, NIH/3T3 nuclear extract, C6 nuclear extract

Recommended Dilutions:

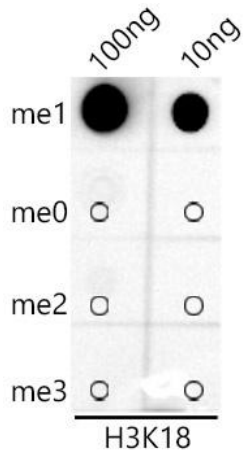
WB	1:500 - 1:1000
DB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	2µg-6µg antibody for 400µg-600µg extracts of whole cells ChIP 5µg antibody for 5µg-10µg of Chromatin CUT&Tag 10^5 cells /1 µg
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

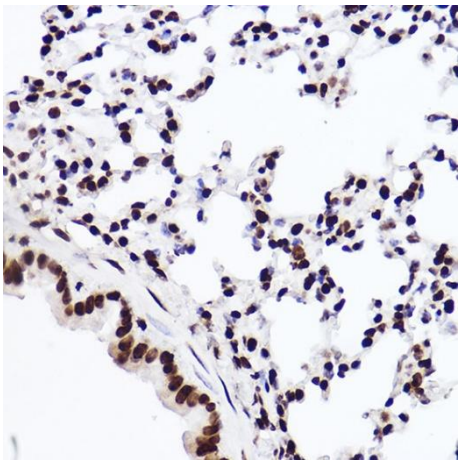
Validation Data



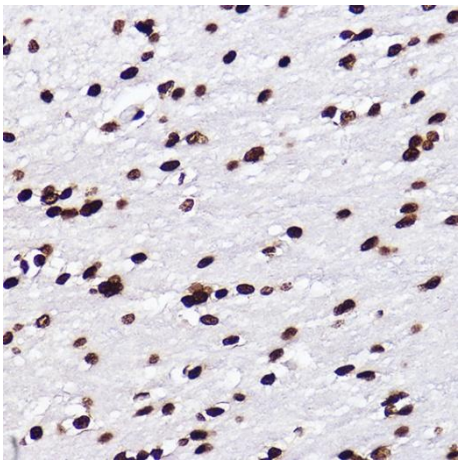
Western blot analysis of various lysates using MonoMethyl-Histone - Rabbit mAb (CAB20680) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 30s.



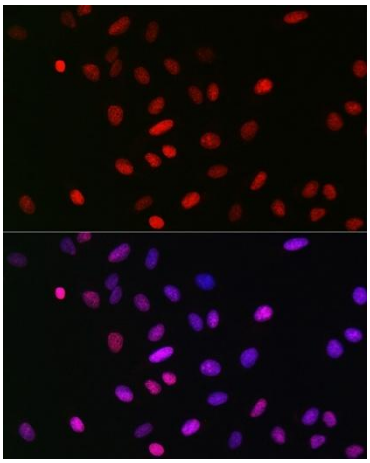
Dot-blot analysis of all sorts of peptides using MonoMethyl-Histone - antibody (CAB20680) at 1:1000 dilution.



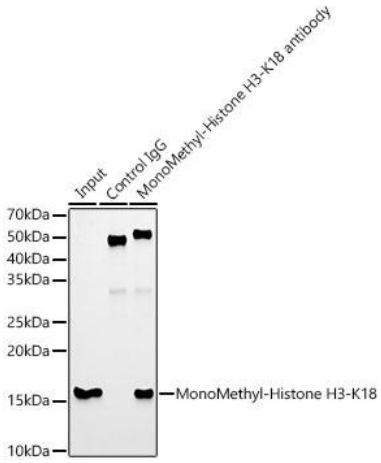
Immunohistochemistry analysis of paraffin-embedded Mouse lung using MonoMethyl-Histone - Rabbit mAb (CAB20680) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



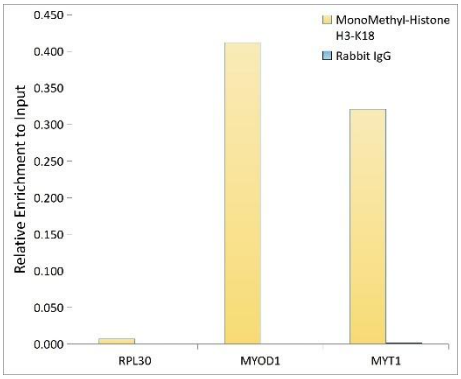
Immunohistochemistry analysis of paraffin-embedded Rat brain using MonoMethyl-Histone - Rabbit mAb (CAB20680) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunofluorescence analysis of U-2 OS cells using MonoMethyl-Histone - Rabbit mAb (CAB20680) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (CABS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 600 µg extracts of 293F cells using 5 µg MonoMethyl-Histone - antibody (CAB20680). Western blot was performed from the immunoprecipitate using MonoMethyl-Histone - antibody (CAB20680) at a dilution of 1:1000.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using MonoMethyl-Histone - antibody (CAB20680) 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.