

TriMethyl-Histone H3-K4 pAb

Catalog No.	A2357	Category	Methylated Antibodies
Applications	WB, IHC, IF, IP, ChIP, ChIPseq	Observed MW	18kDa
Cross-reactivity	Human, Mouse, Rat, Other (Wide Range)	Calculated MW	15kDa

Immunogen Information

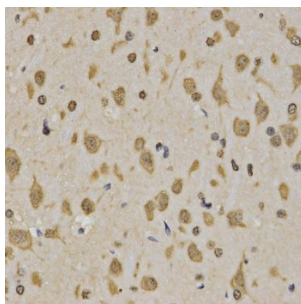
Immunogen	A synthetic methylated peptide corresponding to residues surrounding K4 of human histone H3
Gene ID	8290
Swiss prot	Q16695
Synonyms	H3.4;H3/g;H3FT;H3t

Product information

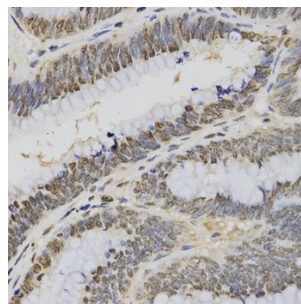
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3.



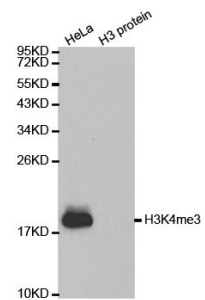
Immunohistochemistry of paraffin-embedded rat brain using TriMethyl-Histone H3-K4 antibody (A2357) at dilution of 1:200 (40x lens).



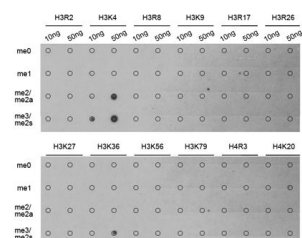
Immunohistochemistry of paraffin-embedded human rectal cancer using TriMethyl-Histone H3-K4 antibody (A2357) at dilution of 1:200 (40x lens).

Recommended Dilutions

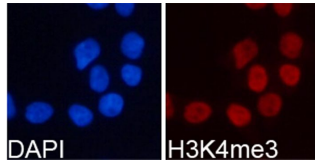
WB	1:500 - 1:2000
IHC	1:50 - 1:200
IF	1:50 - 1:200
IP	1:50 - 1:200
ChIP	1:20 - 1:100
ChIPseq	1:20 - 1:100



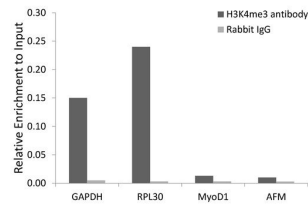
Western blot analysis of extracts of various cell lines, using TriMethyl-Histone H3-K4 antibody (A2357).
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.



Dot-blot analysis of all sorts of methylation peptides using TriMethyl-Histone H3-K4 antibody (A2357).



Immunofluorescence analysis of 293T cells using TriMethyl-Histone H3-K4 antibody (A2357). Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis extracts of 293 cell line, using TriMethyl-Histone H3-K4 antibody (A2357) 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.