

TriMethyl-Histone H3-K27 pAb

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|-------------------------|------------------------------------|----------------------|-----------------------|
| Catalog No | A2363 | Category | Methylated Antibodies |
| Applications | WB,IHC,IF,IP,ChIP,ChIPseq | Observed MW | 17kDa |
| Cross-Reactivity | Human,Mouse,Rat,Other (Wide Range) | Calculated MW | 15kDa |

Immunogen Information

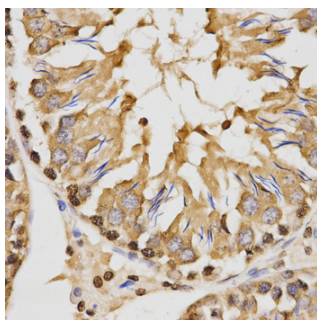
| | |
|-------------------|--|
| Immunogen | A synthetic methylated peptide corresponding to residues surrounding K27 of human histone H3 |
| Gene ID | 8290 |
| Swiss Prot | Q16695 |
| Synonyms | |

Product information

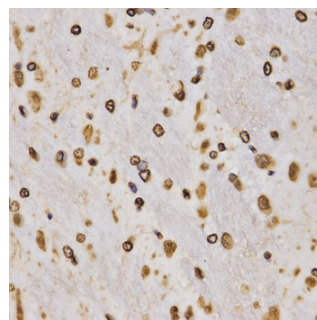
| | |
|----------------|--|
| Source | Rabbit |
| Isotype | IgG |
| Purity | Affinity purification |
| Storage | Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

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.



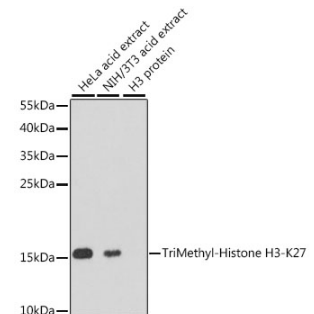
Immunohistochemistry of paraffin-embedded rat testis using TriMethyl-Histone H3-K27 antibody (A2363) at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded rat brain using TriMethyl-Histone H3-K27 antibody (A2363) 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 |

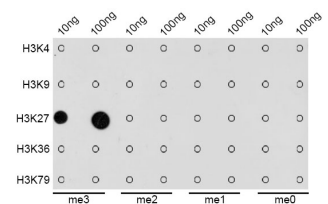


Western blot analysis of extracts of various cell lines, using TriMethyl-Histone H3-K27 antibody (A2363) at 1:1000 dilution.

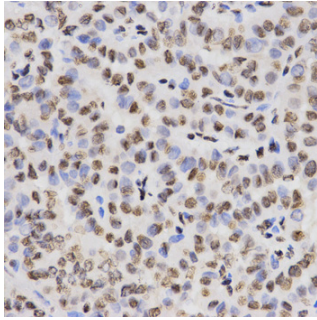
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

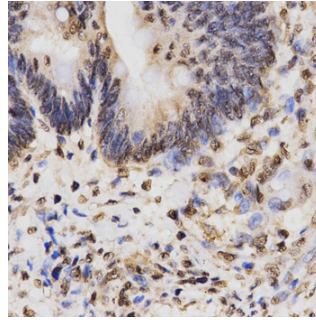
Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



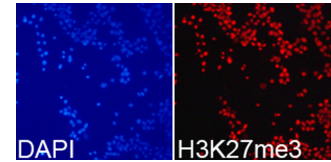
Dot-blot analysis of all sorts of methylation peptides using TriMethyl-Histone H3-K27 antibody (A2363).



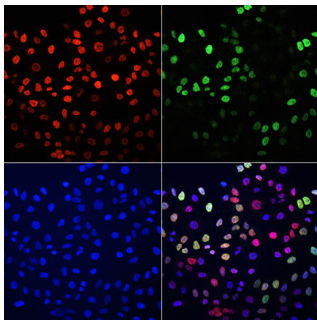
Immunohistochemistry of paraffin-embedded human thyroid cancer using TriMethyl-Histone H3-K27 antibody (A2363) at dilution of 1:200 (40x lens).



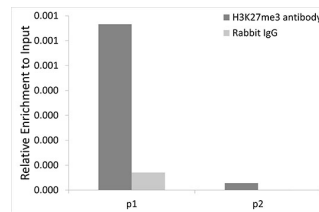
Immunohistochemistry of paraffin-embedded human rectal cancer using TriMethyl-Histone H3-K27 antibody (A2363) at dilution of 1:200 (40x lens).



Immunofluorescence analysis of 293T cells using TriMethyl-Histone H3-K27 antibody (A2363). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using TriMethyl-Histone H3-K27 antibody (Red)(A2363) and BrdU antibody (Green)(A1482). Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis extracts of 293T cells, using TriMethyl-Histone H3-K27 antibody (A2363) and rabbit IgG. P1 and P2 were located on ANO2 gene. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.