



# Histone H3 (Tri Methyl Lys27) Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-00813                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reactivity         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applications       | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Name          | HIST1H3A/HIST1H3B/HIST1H3C/HIST1H3D/HIST1H3E/HIST1H3F/HIST1H3G/HIST1H3H/HIST1H3I/HIST1H3J/HIST2H3A/HIST2H3C/HIST2H3D/H3F3A/H3F3B                                                                                                                                                                                                                                                                                                                                              |
| Protein Name       | Histone H3.1/Histone H3.2/Histone H3.3                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Immunogen          | Synthetic Peptide of Histone H3 (Tri Methyl Lys27)                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Specificity        | The antibody detects endogenous Histone H3 (Tri Methyl Lys27) protein.                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulation        | PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                         |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                         |
| Dilution           | WB: 1:500-1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Synonyms           | H3K27ME3; HIST1H3A; H3FA; HIST1H3B; H3FL; HIST1H3C; H3FC; HIST1H3D; H3FB; HIST1H3E; H3FD; HIST1H3F; H3FI; HIST1H3G; H3FH; HIST1H3H; H3FK; HIST1H3I; H3FF; HIST1H3J; H3FJ; Histone H3.1; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l; HIST2H3A; HIST2H3C; H3F2; H3FM; HIST2H3D; Histone H3.2; Histone H3/m; Histone H3/o; H3F3A; H3.3A; H3F3; PP781; H3F3B; H3.3B; Histone H3.3 |
| Observed Band      | 15-17kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cell Pathway       | Nucleus. Chromosome.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Tissue Specificity | Blood,Epithelium,Kidney,Lung,Ovary,Spleen,Uterus,                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function           | caution:Was originally (PubMed:2587222) thought to originate from mouse.,developmental stage:Expressed during S phase, then expression strongly                                                                                                                                                                                                                                                                                                                               |

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decreases as cell division slows down during the process of differentiation.,function:Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.,mass spectrometry:Monoisotopic with N-acetylserine PubMed:16457589,miscellaneous:This histone is only present in mammals and is enriched in acetylation of Lys-15 and dimethylation of Lys-10 (H3K9me2).,PTM:Acetylation is generally I

**Background**

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015],

**matters needing attention**

Avoid repeated freezing and thawing!

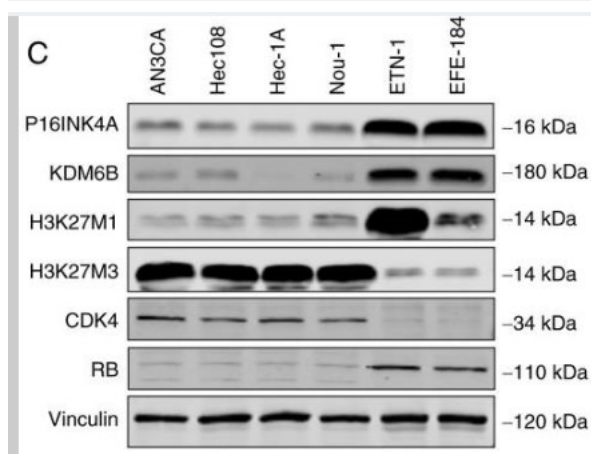
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

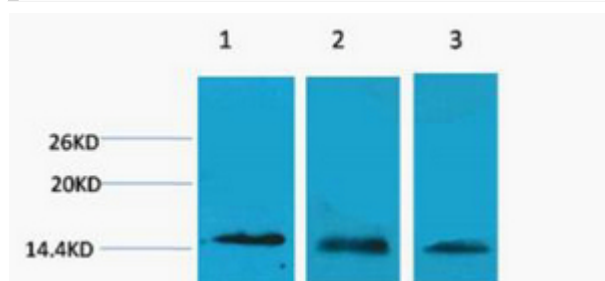
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## Products Images



Xiao, Zhen, et al. "Targeting P16INK4A in uterine serous carcinoma through inhibition of histone demethylation." *Oncology reports* 41.5 (2019): 2667-2678.



Western blot analysis of 1) Hela, 2) 3T3, 3) Rat Liver Tissue, diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).