

Anti-Di-methyl-Histone H3 (Lys79) Antibody (7R675)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 15 kDa. Actual: 15 kDa.
Clone:	7R675
Purification:	Protein G purified

Applications

1. Sample:
NIH/3T3 (Mouse) Cell Lysate at 30 µg
Hela (Human) Cell Lysate at 30 µg
MCF-7 (Human) Cell Lysate at 30 µg
U2os (Human) Cell Lysate at 30 µg
Primary: Anti-Histone H3 (di methyl K79) (TMAB-07105) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 17 kD
Observed band size: 19 kD
2. Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Histone H3) Monoclonal Antibody, Unconjugated (TMAB-07105) at 1:500 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (human breast); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Histone H3) Monoclonal Antibody, Unconjugated (TMAB-07105) at 1:500 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (human colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Histone H3) Monoclonal Antibody, Unconjugated (TMAB-07105) at 1:500 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (Histone H3) Monoclonal Antibody, Unconjugated (TMAB-07105) at 1:500 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructions and DAB staining.
- Verified Activity:

A DRUG SCREENING EXPERT

Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:1000-5000; IHC-P: 1:500-1000; IHC-Fr: 1:500-1000; IF: 1:500-1000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthesised methylpeptide: human Histone H3 around the methylation site of di methyl K79

Antigen Species: Human

Gene ID: 8350

Uniprot ID: P68431

Research Background

Modulation of the chromatin structure plays an important role in the regulation of transcription in eukaryotes. The nucleosome, made up of four core histone proteins (H2A, H2B, H3 and H4), is the primary building block of chromatin. The N-terminal tail of core histones undergoes different posttranslational modifications including acetylation, phosphorylation and methylation. These modifications occur in response to cell signal stimuli and have a direct effect on gene expression. In most species, the histone H2B is primarily acetylated at lysines 5, 12, 15 and 20. Histone H3 is primarily acetylated at lysines 9, 14, 18 and 23. Acetylation at lysine 9 appears to have a dominant role in histone deposition and chromatin assembly in some organisms. Phosphorylation at Ser10 of histone H3 is tightly correlated with chromosome condensation during both mitosis and meiosis.

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