Data Sheet (Cat.No.TMAB-07136)

Anti-Acetyl-Histone H4 (Lys5) Polyclonal Antibody 3

Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 11 kDa. Actual: 11 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (Histone H4 (Acetyl K5)) polyclonal Antibody, Unconjugated (TMAB-07136) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei. 2. Sample: Lane 1: Human Hela cell lysates Lane 2: Human Jurkat cell lysates Lane 3: Human HL60 cell lysates Lane 4: Human MCF-7 cell lysates Primary: Anti-Histone H4 (Acetyl K5) (TMAB-07136) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 11 kD Observed band size: 11 kD 3. Paraformaldehyde-fixed, paraffin embedded (rat liver tissue); 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 (H4 (Acetyl K5)) Polyclonal Antibody, Unconjugated (TMAB-07136) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500

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 acetylpeptide: human Histone H4 around the acetylation site of Acetyl Lys5
Antigen Species:	Human
Gene ID:	121504
Uniprot ID:	P62805

Research 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 member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. [provided by RefSeq, Jul 2008]

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