Data Sheet (Cat.No.TMAB-07073)

Anti-Acetyl-Histone H2B (Lys116) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat)
Molecular Weight:	Theoretical: 14 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1: 2000 Primary ab incubation condition: 2 hours at room temperature Secondary ab: Goat Anti-Rabbit IgG H&L (HRP) Lysate: (-) HeLa, (+) HeLa+Sodium butyrate (30 mM, 4 h) Protein loading quantity: 20 µg Exposure time: 60 s Predicted MW: 14 kDa Observed MW: 14 kDa 2. Cell type: HeLa+SBA (5 mM, 24h) Cross-linking conditions: No cross-linking Amount of chromatin per IP: 5×106 cells Amount of ab per IP: 4 µg, 12ug Beads type and amount per IP: 50 µl of Protein A/G MagBeads Comment: The ChIP was performed with 1 µg of normal rabbit IgG as a negative control. Real time quantitative PCR was performed on immunoprecipitated DNA using primers specific for the human RAB20, GAPDH CDS region, RPL30, LDHA, FOXO3a-promoter and FOXO3a-downstream. Data are presented as enrichment of each sample relative to total amount of input chromatin at each amplicon.
Application:	WB,ChIP
Recommended	WB: 1:500-2000; ChIP: 4µg/5x106 cells

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 synthetic peptide: human Histone H2B (Acetyl K116)
Antigen Species:	Human
Gene ID:	3018
Uniprot ID:	P33778

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 H2B 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, Jul 2008].

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