

Product datasheet for **TA377050**

H2BC21 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ChIP, ICC/IF, IHC, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:200 IF,1:50 - 1:200 ChIP,1:50 - 1:200
Reactivity:	Human, Mouse, Rat, Other (Wide Range)
Modifications:	Acetyl K12
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic acetylated peptide around K12 of human Histone H2B (NP_003519.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	13kDa
Gene Name:	histone cluster 2, H2be
Database Link:	Entrez Gene 8349 Human Q16778



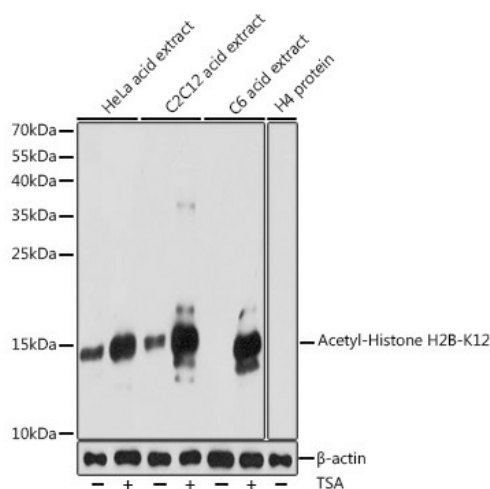
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Background:

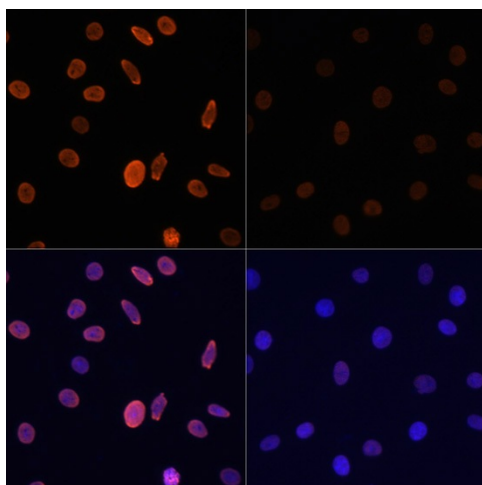
Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene encodes a replication-dependent histone that is a member of the histone H2B family, and generates two transcripts through the use of the conserved stem-loop termination motif, and the polyA addition motif. The protein has antibacterial and antifungal antimicrobial activity.

Synonyms:

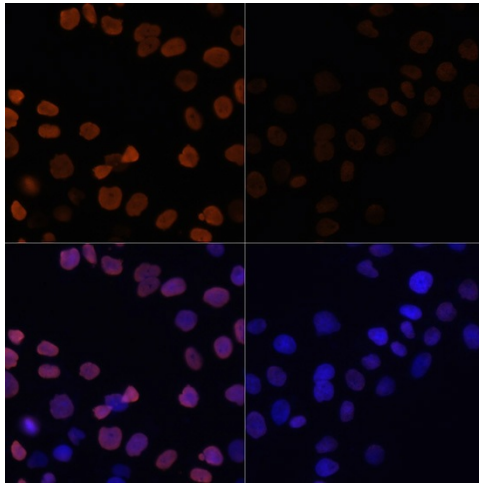
GL105; H2B; H2B-GL105; H2B.1; H2B.q; H2B/q; H2BFQ; H2BGL105; H2BQ; MGC119802; MGC119804; MGC129733; MGC129734

Product images:


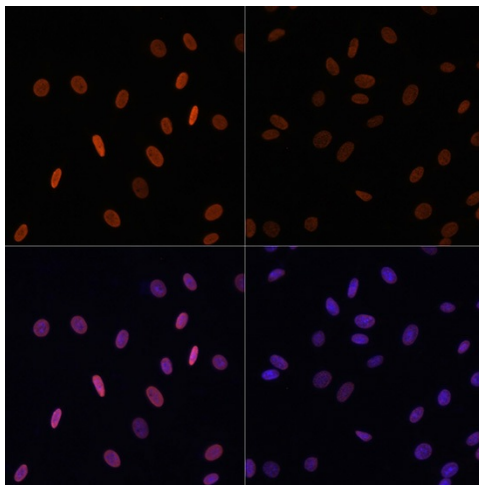
Western blot analysis of extracts of various cell lines, using Acetyl-Histone H2B-K12 antibody (TA377050) at 1:1000 dilution. HeLa cells and C2C12 cells and C6 cells were treated by TSA (1 uM) at 37°C for 18 hours. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit . | Exposure time: 90s.



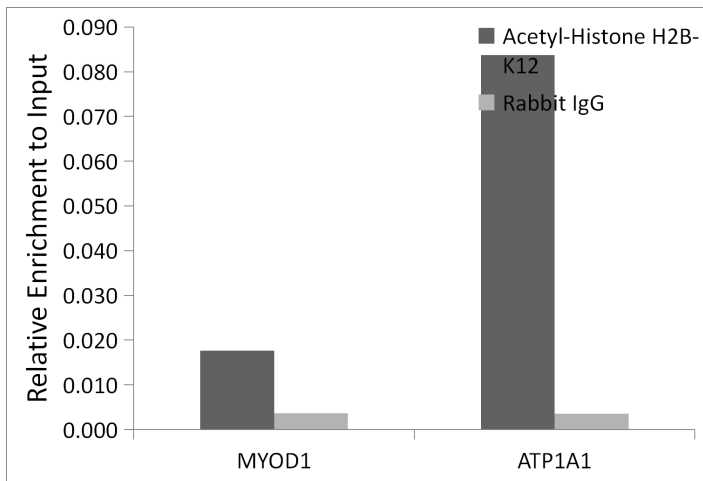
Immunofluorescence analysis of C6 cells using Acetyl-Histone H2B-K12 antibody (TA377050) at dilution of 1:100. C6 cells were treated by TSA (1 uM) at 37°C for 18 hours (top left). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using Acetyl-Histone H2B-K12 antibody (TA377050) at dilution of 1:100. HeLa cells were treated by TSA (1 μ M) at 37°C for 18 hours (top left). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using Acetyl-Histone H2B-K12 antibody (TA377050) at dilution of 1:100. NIH/3T3 cells were treated by TSA (1 μ M) at 37°C for 18 hours (top left). Blue: DAPI for nuclear staining.



Chromatin immunoprecipitation analysis of extracts of HeLa cells, using Acetyl-Histone H2B-K12 antibody (TA377050) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.