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Product datasheet for TA347142

H2BC5 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	Dot, ELISA
Recommended Dilution:	ChIP (2ug/IP); ELISA (1:500); Dot blotting (1:20,000)
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-H2B pan antibody: histone H2B using a KLH-conjugated synthetic peptide containing an unmodified sequence from the C-terminal part of the protein.
Concentration:	lot specific
Purification:	Affinity purified polyclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	histone cluster 1, H2bd
Database Link:	NP_619790 Entrez Gene 3017 Human P62807
Background:	Histones are the main constituents of the protein part of chromosomes of eukaryotic cells. They are rich in the amino acids arginine and lysine and have been greatly conserved during evolution. Histones pack the DNA into tight masses of chromatin. Two core histones of each class H2A, H2B, H3 and H4 assemble and are wrapped by 146 base pairs of DNA to form one octameric nucleosome. Histones play a central role in the regulation of transcription, DNA repair, DNA replication and chromosomal stability. These different functions are established via a complex set of post-translational modifications which either directly or indirectly alter chromatin structure and DNA accessibility to facilitate transcriptional activation or repression or other nuclear processes.
Synonyms:	b; dJ221C16.6; H2B; H2B.1B; H2BFB; HIRIP2

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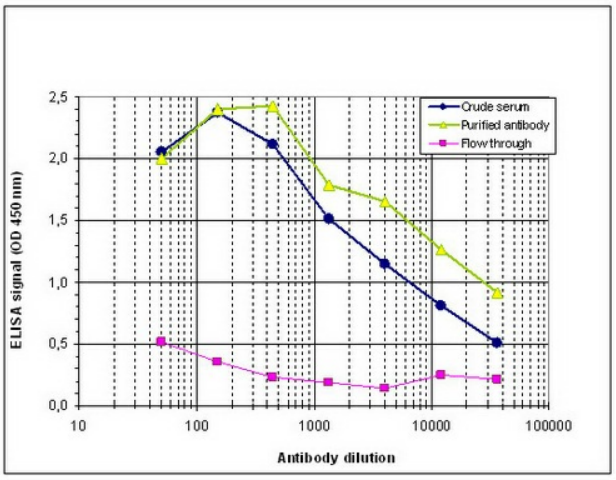
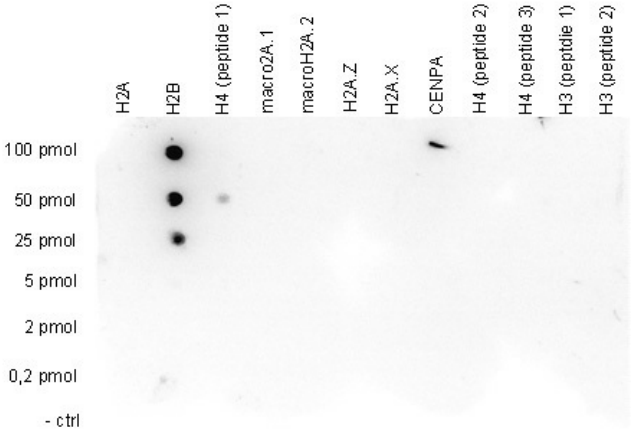
Protein Pathways: Systemic lupus erythematosus

Product images:



Determination of the titer To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H2Bpan, crude serum and flow through in antigen coated wells. By plotting the absorbance against the antibody dilution (Figure 2), the titer of the antibody was estimated to be 1:14, 950.



A Dot Blot analysis was performed to test the cross reactivity of the antibody against H2Bpan with the peptide used for immunization of the rabbit and other peptides containing unmodified sequences of different histones. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20,000. Image shows a high specificity of the antibody for the H2B peptide.

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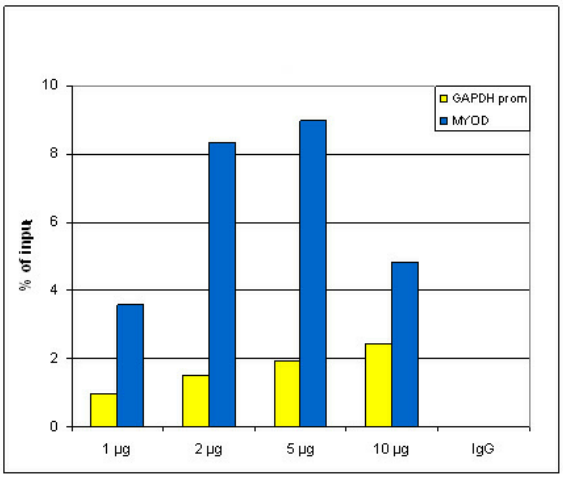

ChIP assays using HeLa cells: ChIP" kit on sheared chromatin from 10,000 cells using the SX-8G IP-Star automated system. A titration of the antibody consisting of 1, 2, 5, and 10 ug per ChIP experiment was analysed. IgG (5 ug/IP) was used as negative IP control. QPCR was performed with primers for the GAPDH promoter and for the inactive MYOD gene. Image shows the recovery, expressed as a % of input (the relative amount of IP'd DNA compared to input DNA after qPCR analysis).

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