

## Product datasheet for **TA347218**

### H4-16 Rabbit Polyclonal Antibody

#### Product data:

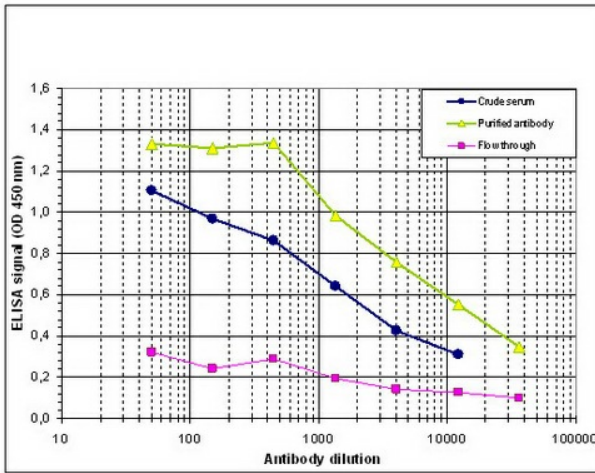
Product Type:	Primary Antibodies
Applications:	Dot, ELISA
Recommended Dilution:	ChIP (2-5ug/IP); ELISA (1:500); Dot Blotting (1:10.000)
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-H4 pan antibody: histone H4 using a KLH-conjugated synthetic peptide containing an unmodified sequence from the central 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 4, H4
Database Link:	<a href="#">NP_778224</a> <a href="#">Entrez Gene 121504 Human</a> <a href="#">P62805</a>
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:	H4; p



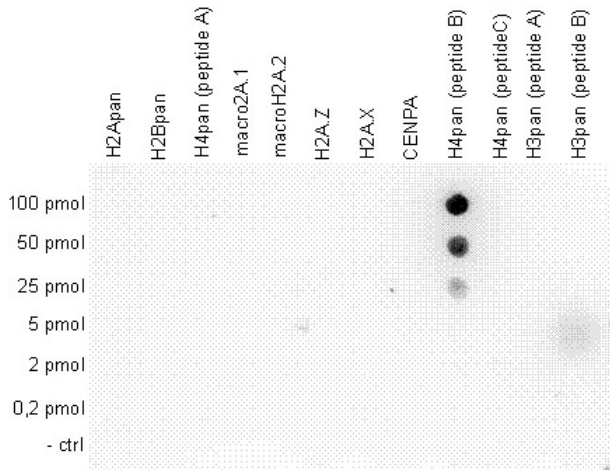
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Protein Pathways: Systemic lupus erythematosus

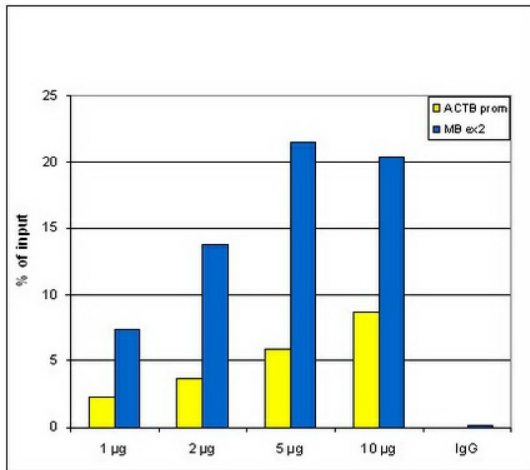
Product images:



Determination of the titer To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H4pan, 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 1:11, 250.



A Dot Blot analysis was performed to test the cross reactivity of the antibody against H4pan 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 1:10,000. Image shows a high specificity of the antibody for the specific peptide.



ChIP assays using HeLa cells: ChIP<sup>®</sup> 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 µg per ChIP experiment was analysed. IgG (1 µg/IP) was used as negative IP control. QPCR was performed with primers for the ACTB promoter and for the second exon of the MB gene. Image shows the recovery, expressed as a % of input (the relative amount of IP'd DNA compared to input DNA after qPCR analysis).