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Anti-Histone H4 (MonoMethyl-K5) Antibody

Rabbit polyclonal antibody to Histone H4 (MonoMethyl-K5)
Catalog # AP61436

Product Information

Application	WB, IHC
Primary Accession	P62805
Other Accession	P62806
Reactivity	Human, Mouse, Rat, Pig, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11367

Additional Information

Gene ID	121504;554313;8294;8359;8360;8361;8362;8363;8364;8365;8366;8367;8368;8370
Other Names	H4/A; H4FA; H4/I; H4FI; H4/G; H4FG; H4/B; H4FB; H4/J; H4FJ; H4/C; H4FC; H4/H; H4FH; H4/M; H4FM; H4/E; H4FE; H4/D; H4FD; H4/K; H4FK; H4/N; H4F2; H4FN; HIST2H4; H4/O; H4FO; Histone H4
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Histone H4 with a site at MonoMethyl-K5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200) IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

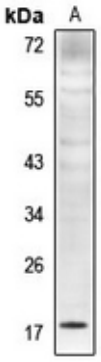
Name	H4C1
Synonyms	H4/A, H4FA, HIST1H4A
Function	Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Nucleus {ECO:0000250|UniProtKB:P62806}. Chromosome. Note=Localized to

Cellular Location	the nucleus when acetylated in step 11 spermatids. {ECO:0000250|UniProtKB:P62806}

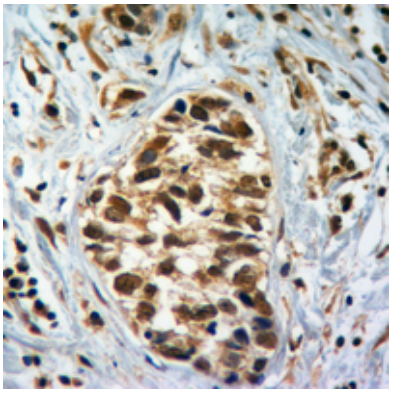
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Histone H4 with a site at MonoMethyl-K5. The exact sequence is proprietary.

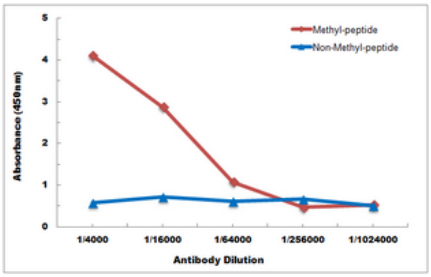
Images



Western blot analysis of Histone H4 (MonoMethyl-K5) expression in Hela (A) whole cell lysates.



Immunohistochemical analysis of Histone H4 (MonoMethyl-K5) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Direct ELISA antibody dose-response curve using Anti-Histone H4 (MonoMethyl-K5) Antibody. Antigen (methyl-peptide and non-methyl-peptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.