

Polyclonal Antibody to Histone H2A/H4 pSer1 - Serum

Alternate names:	H2A Histone Family
Catalog No.:	AP31734SU-N
Quantity:	50 µl
Background:	Histones are the core component of nucleosome. The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. 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 including phosphorylation.
Host:	Rabbit
Immunogen:	kLH-conjugated, synthetic peptide corresponding to amino acids 1-9 of Human Histone H2A ([pS]GRGKQGK-C), with a C-terminal cysteine added to facilitate conjugation. The immunizing sequence has 8/9 amino acid identity with Histone H4.
Format:	State: Antiserum containing 0.05% Sodium Azide and 38% Glycerol.
Applications:	Immunohistochemistry on Paraffin Sections: 1/100. Western Blot: 1/2000 - 1/10000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Recognizes phosphorylated Histones H2A and H4, Mr 16kD and 10kD respectively.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Broad species cross-reactivity expected due to sequence conservation.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
Pictures:	Human Tonsil: Formalin-Fixed, Paraffin-Embedded (FFPE)

