

Product datasheet for **AP55009SU-N**

HIST4H4 (Citrulline R3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/5000 - 1/10000. Immunohistochemistry: 1/100 - 1/1000. Western Blot: 1/100 - 1/1000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from N-term region of Human Histone H4, containing Citrulline at position 3
Specificity:	This antibody reacts with Histone H4 Citrulline at the position 3 (10 kDa). No cross reaction with free H4 or with other citrullinated proteins.
Formulation:	State: Serum State: Lyophilized serum
Reconstitution Method:	Restore in distilled water.
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	histone cluster 4, H4
Database Link:	Entrez Gene 121504 Human P62805



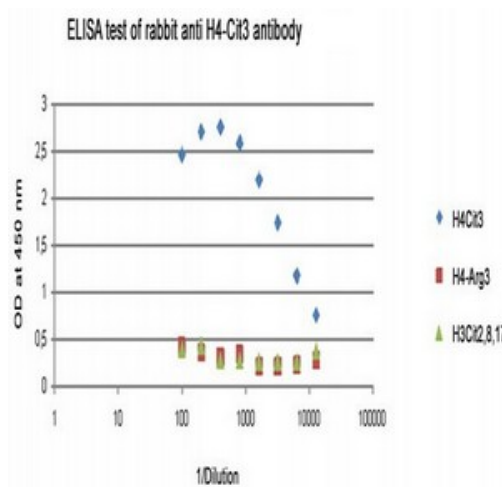
[View online »](#)

Background:

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. Citrullination at Arg-4 (H4R3ci) by PADI4 impairs methylation.

Synonyms:

HIST1H4, H4/A, H4FA

Product images:


Control of the specificity of anti H4-Cit3 using H4Cit3 peptide, H4-Arg3 peptide and H3Cit2, 8, 17 peptide