

## ARG54762 anti-Histone H3 monomethyl (Lys9) antibody - ChIP-Grade

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Histone H3 monomethyl (Lys9) - ChIP-Grade
Tested Reactivity	Hu, Rat
Tested Application	ChIP, ChIP-seq, Dot, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Histone H3
Antigen Species	Human
Immunogen	Synthetic methylated peptide around Lys9 of Human histone H3 (NP_003484.1)
Conjugation	Un-conjugated
Alternate Names	H3FT; H3/g; Histone H3.1t; H3t; H3/t; H3.4

### Application Instructions

Application table	Application	Dilution
	ChIP	1:20 - 1:100
	ChIP-seq	1:20 - 1:100
	Dot	Assay-dependent
	ICC/IF	1:50 - 1:200
	IHC-P	Assay-dependent
	IP	1:50 - 1:200
	WB	1:500 - 1:2000
	Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	HeLa	
Calculated Mw	16 kDa	

### Properties

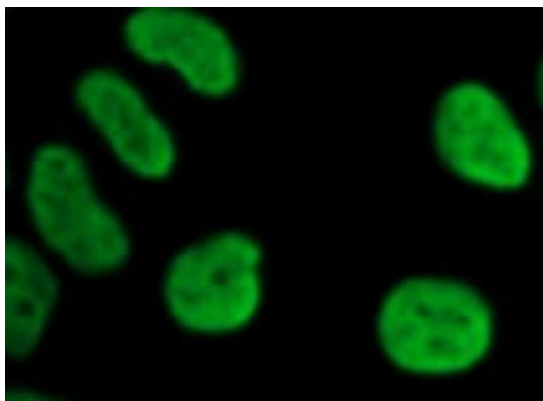
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol
Preservative	0.02% Sodium azide

Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

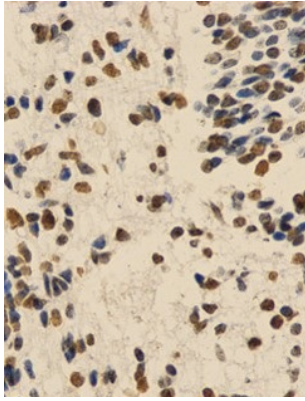
Database links	<a href="#">GeneID: 8290 Human</a> <a href="#">Swiss-port # Q16695 Human</a>
Gene Symbol	HIST3H3
Gene Full Name	histone cluster 3, H3
Background	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Histone H3 gene is intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is located separately from the other H3 genes that are in the histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]
Function	Histone H3 is a 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. [UniProt]
Research Area	Gene Regulation antibody

## Images



ARG54762 anti-Histone H3 monomethyl (Lys9) antibody - ChIP-Grade ICC/IF image

Immunofluorescence: 293T cells stained with ARG54762 anti-Histone H3 monomethyl (Lys9) antibody (ChIP-Grade).



ARG54762 anti-Histone H3 monomethyl (Lys9) antibody - ChIP-Grade IHC-P image

Immunohistochemistry: Paraffin-embedded Human embryo brain tissue stained with ARG54762 anti-Histone H3 monomethyl (Lys9) antibody (ChIP-Grade) at 1:200 dilution.



ARG54762 anti-Histone H3 monomethyl (Lys9) antibody - ChIP-Grade WB image

Western blot: HeLa cell lysate and Recombinant Histone H3 protein expressed in *E. coli* (negative control) stained with ARG54762 anti-Histone H3 monomethyl (Lys9) antibody (ChIP-Grade).