ARG67285
anti-Histone H3 monomethyl (Lys4) antibody [3A03]

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Monoclonal antibody [3A03] recognizes Histone H3 monomethyl (Lys4)
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Monoclonal
Clone	3A03
Isotype	IgG,Kappa
Target Name	Histone H3
Conjugation	Un-conjugated
Alternate Names	Histone H3/f; Histone H3.1; Histone H3/d; Histone H3/b; Histone H3/c; Histone H3/a; Histone H3/l; Histone H3/j; Histone H3/k; Histone H3/h; H3/A; H3FA; Histone H3/i

Application Instructions

Application table

Application	Dilution
ICC/IF	1:200 -1:1000
IHC-P	1:5000 - 1:20000
WB	1:2000 - 1:10000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purification with Protein A
Buffer	PBS, 0.05% Proclin 300, 50% Glycerol and 0.05% BSA
Preservative	0.05% Proclin 300
Stabilizer	50% Glycerol and 0.05% BSA
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

Gene Symbol	HIST1H3A
Gene Full Name	histone cluster 1, H3a
Background	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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. This 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 found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]
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. [UniProt]
Calculated Mw	15 kDa