

ARG45043 anti-Histone H3.3 (G34R Mutant) antibody [RM240]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit monoclonal [RM240] recognizes Histone H3.3 (G34R Mutant).
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, WB
Specificity	This antibody reacts to the Histone H3.3 G34R mutant. No cross reactivity with wild type Histone H3.3.
Host	Rabbit
Clonality	Monoclonal
Clone	RM240
Isotype	IgG
Target Name	Histone H3
Immunogen	A peptide corresponding to Histone H3.3 G34R mutant
Conjugation	Un-conjugated
Alternate Names	H3-3A; H3.3 Histone A; H3.3A; H3F3A; H3F3; H3 Histone Family Member 3A; H3 Histone, Family 3A; Histone H3.3; BRYLIB1; H3-3B; H3.3B; H3F3B

Application Instructions

Application table	Application	Dilution
	ELISA	1:250 - 1:2500
	IHC-P	1:100 - 1:500
	WB	1:200 - 1:1000
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 with 50% Glycerol, 1% BSA and 0.09% sodium azide
Preservative	0.09% sodium azide
Stabilizer	50% Glycerol, 1% BSA and 0.09%
Concentration	1 mg/ml
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.

Bioinformation

Gene Symbol	H3-3A
Gene Full Name	H3.3 Histone A
Background	<p>Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene contains introns and its mRNA is polyadenylated, unlike most histone genes. The protein encoded is a replication-independent member of the histone H3 family. [provided by RefSeq, Jul 2008]</p>
Function	<p>Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. 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]</p>
Cellular Localization	Chromosome, Nucleosome core, Nucleus. [Uniprot]