

## Product datasheet for **TA384376M**

### **H3.3A (H3F3A) Rabbit Monoclonal Antibody [Clone ID: R04-5J3]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	R04-5J3
Applications:	IHC, WB
Recommended Dilution:	WB: 1/1000 IHC: 1/200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Histone H3.3
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 15 kDa; Observed MW: 15 kDa
Gene Name:	H3 histone, family 3A
Database Link:	<a href="#">Entrez Gene 3020 Human P84243</a>



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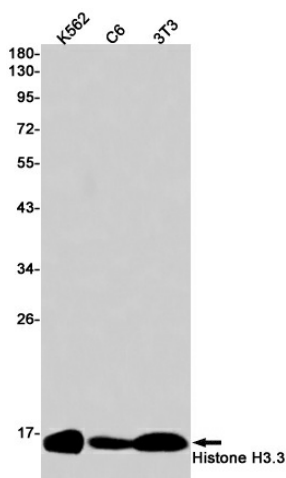
## Background:

Swiss-Prot Acc.P84243.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.

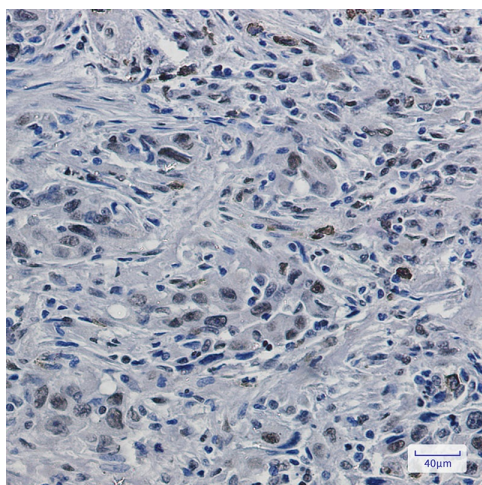
## Synonyms:

H3.3A; H3.3B; H3F3; MGC87782; MGC87783; OTTHUMP00000035619; OTTHUMP00000035621

## Product images:



Western blot analysis of Histone H3.3 in K562, C6, 3T3 lysates using Histone H3.3 antibody.



Immunohistochemistry analysis of paraffin-embedded Human lung cancer using Histone H3.3 antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.