

OriGene Technologies, Inc.

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Product datasheet for TA384691

MACROH2A1 Rabbit Monoclonal Antibody [Clone ID: R04-8E5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R04-8E5
Applications:	IF, WB
Recommended Dilution:	WB: 1/2000-1/10000 ICC/IF: 1/50
Reactivity:	Mouse, Rat
Host:	Rabbit
lsotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human macroH2A.1
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: 40 kDa; Observed MW: 40 kDa
Gene Name:	H2A histone family member Y
Database Link:	<u>075367</u>



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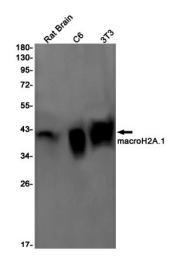
Serigene MACROH2A1 Rabbit Monoclonal Antibody [Clone ID: R04-8E5] – TA384691

Background:Swiss-Prot Acc.075367.Variant histone H2A which replaces conventional H2A in a subset of
nucleosomes where it represses transcription (PubMed:12718888, PubMed:15621527,
PubMed:16428466). 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. Involved in stable X
chromosome inactivation (PubMed:15897469). Inhibits the binding of transcription factors,
including NF-kappa-B, and interferes with the activity of remodeling SWI/SNF complexes
(PubMed:12718888, PubMed:16428466). Inhibits histone acetylation by EP300 and recruits
class I HDACs, which induces a hypoacetylated state of chromatin (PubMed:16428466,
PubMed:16107708).

Synonyms:

H2A.y; H2A/y; H2AF12M; H2AFJ; MACROH2A1; MACROH2A1.1; macroH2A1.2; mH2A1

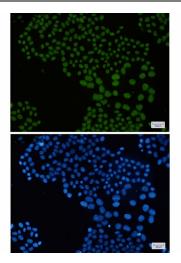
Product images:



Western blot analysis of macroH2A.1 in rat Brain, C6, 3T3 lysates using Macro H2A.1 antibody.

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Immunocytochemistry analysis of macroH2A.1(green) in Hela using macroH2A.1 antibody,and DAPI(blue)

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