

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for TA384691M

## 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>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

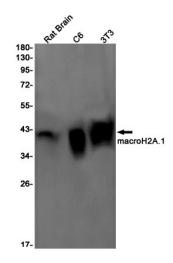
#### Serigene MACROH2A1 Rabbit Monoclonal Antibody [Clone ID: R04-8E5] – TA384691M

Background:Swiss-Prot Acc.075367.Variant histone H2A which replaces conventional H2A in a subset of<br/>nucleosomes where it represses transcription (PubMed:12718888, PubMed:15621527,<br/>PubMed:16428466). Nucleosomes wrap and compact DNA into chromatin, limiting DNA<br/>accessibility to the cellular machineries which require DNA as a template. Histones thereby<br/>play a central role in transcription regulation, DNA repair, DNA replication and chromosomal<br/>stability. DNA accessibility is regulated via a complex set of post-translational modifications of<br/>histones, also called histone code, and nucleosome remodeling. Involved in stable X<br/>chromosome inactivation (PubMed:15897469). Inhibits the binding of transcription factors,<br/>including NF-kappa-B, and interferes with the activity of remodeling SWI/SNF complexes<br/>(PubMed:12718888, PubMed:16428466). Inhibits histone acetylation by EP300 and recruits<br/>class I HDACs, which induces a hypoacetylated state of chromatin (PubMed:16428466,<br/>PubMed:16107708).

Synonyms:

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

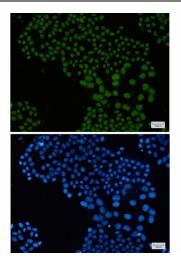
### **Product images:**



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

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US





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

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US