

Product datasheet for TA384691S

OriGene Technologies, Inc.

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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 Isotype: 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: 075367



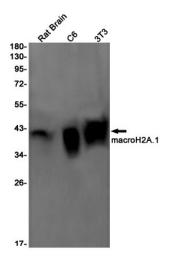
Background:

Swiss-Prot Acc.O75367.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:

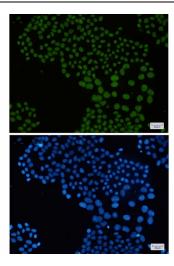
H2A.y; H2A/y; H2AF12M; H2AFJ; MACROH2A1; MACROH2A1.1; macroH2A1.2; mH2A1

Product images:



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





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