

Macro H2A.1 Rabbit mAb

Catalog # AP75686

Product Information

Application	WB, ICC
Primary Accession	O75367
Reactivity	Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	39184

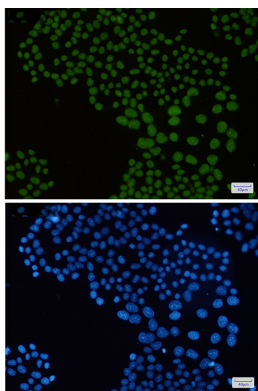
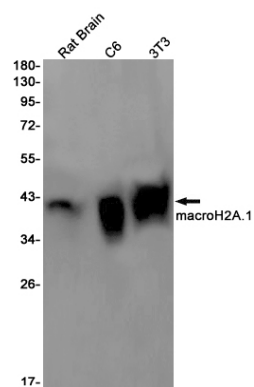
Additional Information

Gene ID	9555
Other Names	MACROH2A1
Dilution	WB~~1/500-1/1000 ICC~~N/A
Format	Liquid

Protein Information

Name	MACROH2A1 (HGNC:4740)
Function	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 (PubMed: 15897469). Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability (PubMed: 15897469). 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: 16107708 , PubMed: 16428466).
Cellular Location	Nucleus. Chromosome. Note=Enriched in inactive X chromosome chromatin and in senescence-associated heterochromatin (PubMed: 15621527 , PubMed: 15897469 , PubMed: 9634239). Recruited to DNA damage sites in an APLF-dependent manner (PubMed: 21211722 , PubMed: 29905837).
Tissue Location	Widely expressed..

Images



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