

ARG44493 anti-mH2A1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes mH2A1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	mH2A1
Species	Human
Immunogen	Human mH2A1 recombinant protein
Conjugation	Un-conjugated
Alternate Names	MACROH2A1; MacroH2A.1 Histone; MacroH2A1.2; H2AFY; Medulloblastoma Antigen MU-MB-50.205; H2A Histone Family Member Y; Core Histone Macro-H2A.1; Histone MacroH2A1; Histone H2A.Y; H2A/Y; MH2A1; H2A Histone Family, Member Y; Histone MacroH2A1.1; Histone MacroH2A1.2; MACROH2A1.1; H2AF12M; H2A.Y

Application Instructions

Application table	Application	Dilution
	ICC/IF	5 µg/ml
	IHC-P	1-2 µg/ml
	WB	0.1-0.25 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Affinity purified with Immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

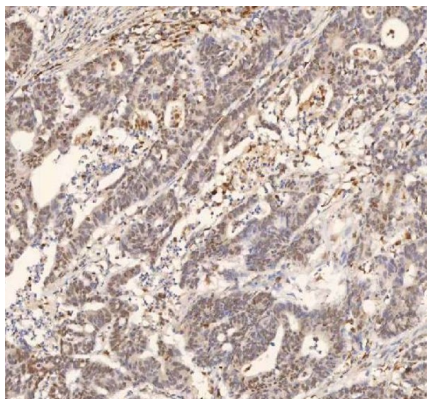
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

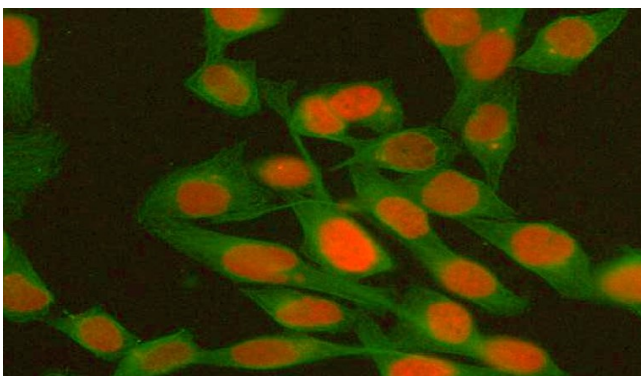
Gene Symbol	MACROH2A1
Gene Full Name	MacroH2A.1 Histone
Background	<p>Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene encodes a replication-independent histone that is a member of the histone H2A family. It replaces conventional H2A histones in a subset of nucleosomes where it represses transcription and participates in stable X chromosome inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms.</p>
Function	<p>Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription.</p>
Calculated Mw	39 kDa
PTM	Acetylation, Isopeptide bond, Methylation, Phosphoprotein, Ubl conjugation
Cellular Localization	Chromosome, Nucleosome core, Nucleus

Images



ARG44493 anti-mH2A1 antibody IHC-P image

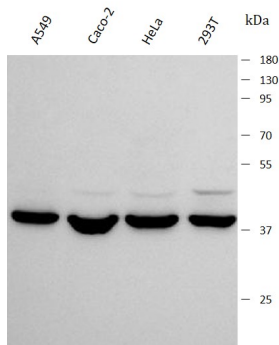
Immunohistochemistry: Human colon adenocarcinoma stained with ARG44493 anti-mH2A1 antibody at 2 µg/mL dilution.



ARG44493 anti-mH2A1 antibody ICC/IF image

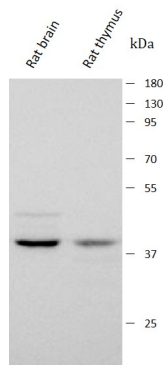
Immunofluorescence: HeLa stained with ARG44493 anti-mH2A1 antibody at 5 µg/mL dilution.

ARG44493 anti-mH2A1 antibody WB image



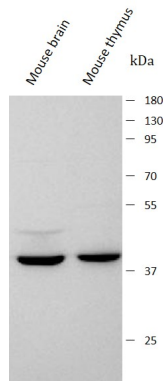
Western blot: A549, Caco-2, HeLa and 293T stained with ARG44493 anti-mH2A1 antibody at 0.5 $\mu\text{g/mL}$ dilution.

ARG44493 anti-mH2A1 antibody WB image

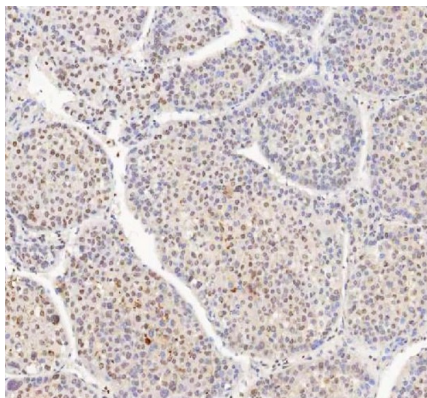


Western blot: Rat brain and Rat thymus stained with ARG44493 anti-mH2A1 antibody at 0.5 $\mu\text{g/mL}$ dilution.

ARG44493 anti-mH2A1 antibody WB image

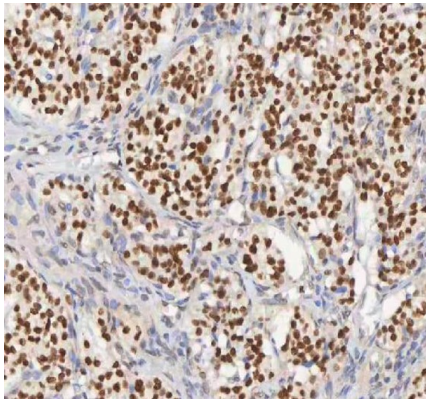


Western blot: Mouse brain and Mouse thymus stained with ARG44493 anti-mH2A1 antibody at 0.5 $\mu\text{g/mL}$ dilution.



ARG44493 anti-mH2A1 antibody IHC-P image

Immunohistochemistry: Human liver cancer stained with ARG44493 anti-mH2A1 antibody at 2 $\mu\text{g/mL}$ dilution.



ARG44493 anti-mH2A1 antibody IHC-P image

Immunohistochemistry: Human lung adenocarcinoma stained with ARG44493 anti-mH2A1 antibody at 2 µg/mL dilution.