

ARG44494 anti-mH2A2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes mH2A2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	mH2A2
Species	Human
Immunogen	Human mH2A2 recombinant protein
Conjugation	Un-conjugated
Alternate Names	MACROH2A2; MacroH2A.2 Histone; H2AFY2; H2A Histone Family Member Y2; Core Histone Macro-H2A.2; Histone MacroH2A2; MH2A2; H2A Histone Family, Member Y2

Application Instructions

Application table	Application	Dilution
	FACS	1-3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

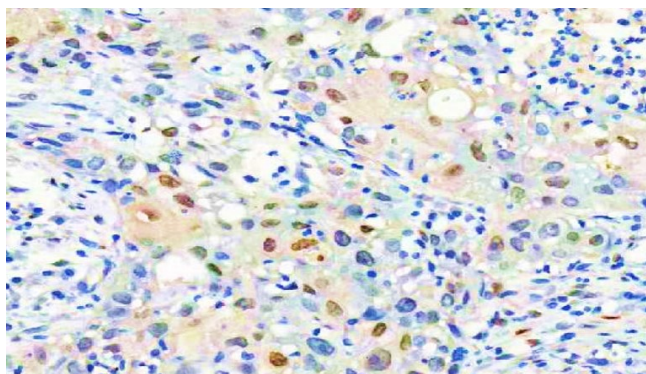
Properties

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.

Bioinformation

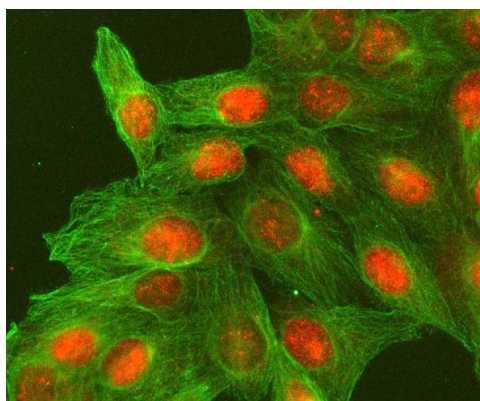
Gene Symbol	MACROH2A2
Gene Full Name	MacroH2A.2 Histone
Background	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each 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 may participate in stable X chromosome inactivation.
Function	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription. 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. May be involved in stable X chromosome inactivation.
Calculated Mw	40 kDa
PTM	Isopeptide bond, Ubl conjugation
Cellular Localization	Chromosome, Nucleosome core, Nucleus

Images



ARG44494 anti-mH2A2 antibody IHC-P image

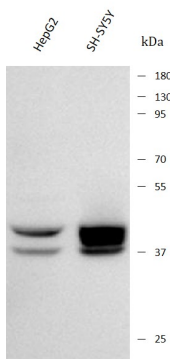
Immunohistochemistry: Human urothelial carcinoma stained with ARG44494 anti-mH2A2 antibody at 2 µg/mL dilution.



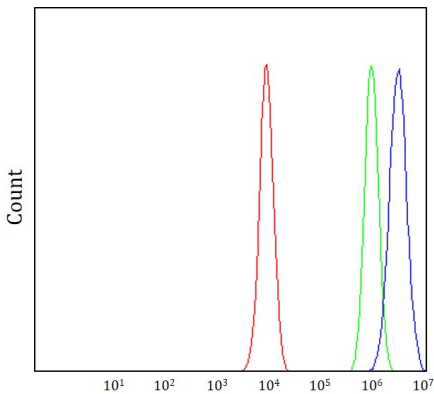
ARG44494 anti-mH2A2 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG44494 anti-mH2A2 antibody at 5 µg/mL dilution.

ARG44494 anti-mH2A2 antibody WB image



Western blot: HepG2 and SH-SY5Y stained with ARG44494 anti-mH2A2 antibody at 2 µg/mL dilution.



ARG44494 anti-mH2A2 antibody FACS image

Flow Cytometry: PC-3 stained with ARG44494 anti-mH2A2 antibody at 1 µg/10⁶ cells dilution.

ARG44494 anti-mH2A2 antibody WB image



Western blot: Rat brain stained with ARG44494 anti-mH2A2 antibody at 2 µg/mL dilution.

ARG44494 anti-mH2A2 antibody antibody IHC-P image



Western blot: Mouse brain stained with ARG44494 anti-mH2A2 antibody at 2 µg/mL dilution.