Product Datasheet

macroH2A.1 Rabbit mAb

Catalog No: #49703

Package Size: #49703-1 50ul #49703-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

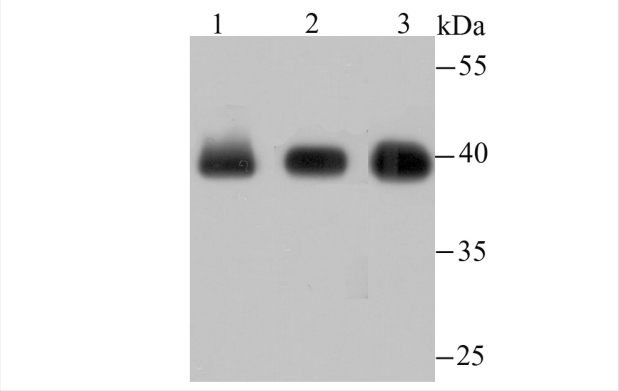
Description

Product Name	macroH2A.1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU22-83
Purification	ProA affinity purified
Applications	WB,ICC/IF,IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	Core histone macro h2a.1 antibody Core histone macro-H2A.1 antibody H2A histone family member Y antibody H2A.y antibody H2A/y antibody H2AF12M antibody H2AFJ antibody H2afy antibody H2AY_HUMAN antibody Histone H2A.Y antibody Histone macroH2A1 antibody Histone macroH2A1.1 antibody Histone macroH2A1.2 antibody Macroh2a1 antibody MACROH2A1.1 antibody MacroH2A1.2 antibody Medulloblastoma antigen MU MB 50.205 antibody Medulloblastoma antigen MU-MB-50.205 antibody mH2a antibody mH2A1 antibody
Accession No.	Swiss-Prot#:O75367
Uniprot	O75367
GeneID	9555;
Calculated MW	40 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

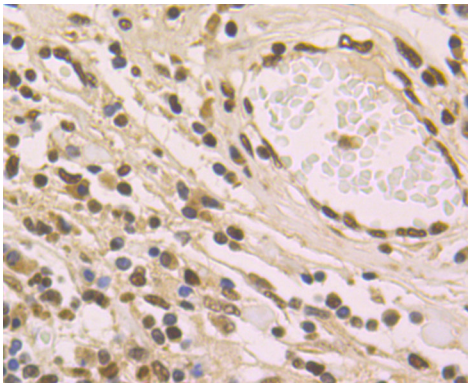
Application Details

WB: 1:500-1:2,000IHC: 1:50-1:200ICC: 1:50-1:200

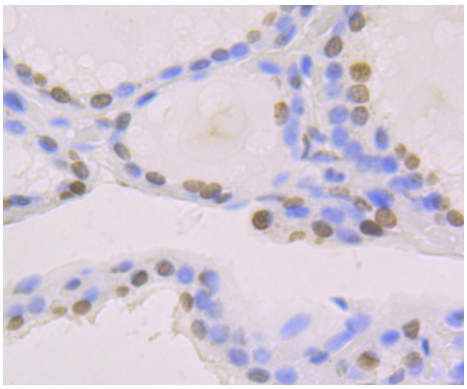
Images



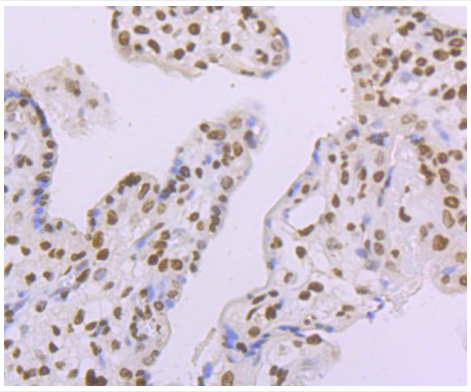
Western blot analysis of macroH2A.1 on different lysates using anti-macroH2A.1 antibody at 1/500 dilution. Positive control: Lane 1: Hela Lane 2: Mouse placenta tissue Lane 3: MCF-7



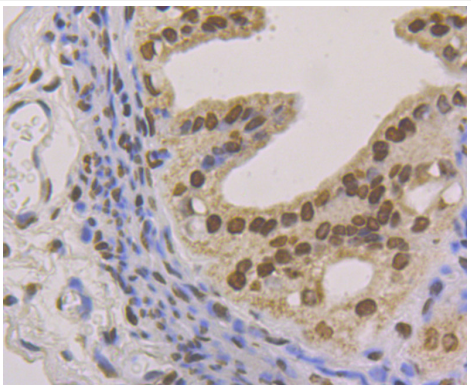
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-macroH2A.1 antibody. Counter stained with hematoxylin.



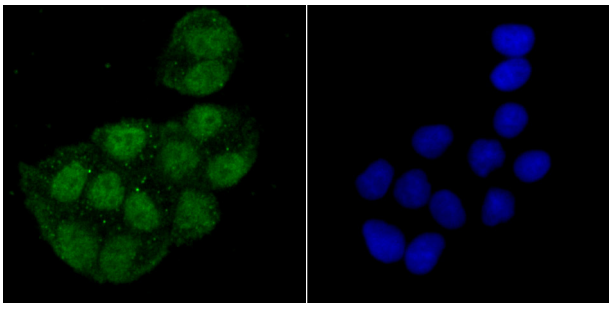
Immunohistochemical analysis of paraffin-embedded human thyroid gland tissue using anti-macroH2A.1 antibody. Counter stained with hematoxylin.



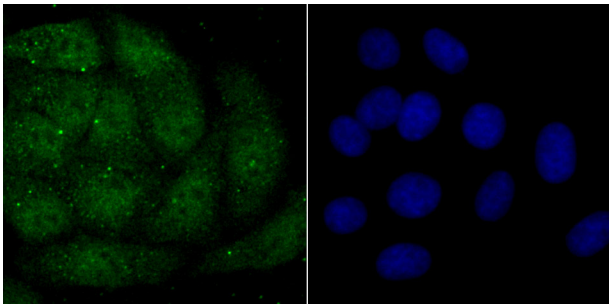
Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-macroH2A.1 antibody. Counter stained with hematoxylin.



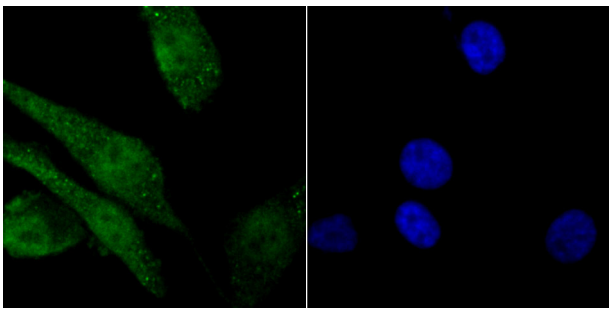
Immunohistochemical analysis of paraffin-embedded mouse fallopian tube tissue using anti-macroH2A.1 antibody. Counter stained with hematoxylin.



ICC staining macroH2A.1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining macroH2A.1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining macroH2A.1 in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

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. Involved in stable X chromosome inactivation. Inhibits the binding of transcription factors and interferes with the activity of remodeling SWI/SNF complexes. Inhibits histone acetylation by EP300 and recruits class I HDACs, which induces an hypoacetylated state of chromatin. In addition, isoform 1, but not isoform 2, binds ADP-ribose and O-acetyl-ADP-ribose, and may be involved in ADP-ribose-mediated chromatin modulation.

References

Note: This product is for in vitro research use only