



MACROH2A1 (PT2023R) mouse mAb

Catalog No	YP-mAb-19409
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	H2AFY MACROH2A1
Immunogen	The specific immunogen used to produce this antibody is proprietary information.
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal,Mouse,IgG
Purification	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein A affinity chromatography.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	H2AFY MACROH2A1;Core histone macro-H2A.1 (Histone macroH2A1) (mH2A1) (Histone H2A.y) (H2A.y) (Medulloblastoma antigen MU-MB-50.205)
Observed Band	39kD
Calculated Molecular Weight	39kD
Cell Pathway	Nucleus . Chromosome . Enriched in inactive X chromosome chromatin and in senescence-associated heterochromatin. .
Tissue Specificity	Widely expressed.
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. Involved in stable X chromosome inactivation . Inhibits the binding of transcription factors , including NF-kappa-B , and interferes with the activity of remodeling SWI/SNF complexes . Inhibits histone acetylation by EP300 and recruits class I HDACs , which induces a hypoacetylated state of chromatin . ; [Isoform 1]: Binds ADP-



ribose and O-acetyl-ADP-ribose , and may be involved in ADP-ribose-mediated chromatin modulation . Increases the expression of genes involved in redox metabolism , including SOD3 . ; [Isoform 2]: Represses SOD3 gene expression.

Background

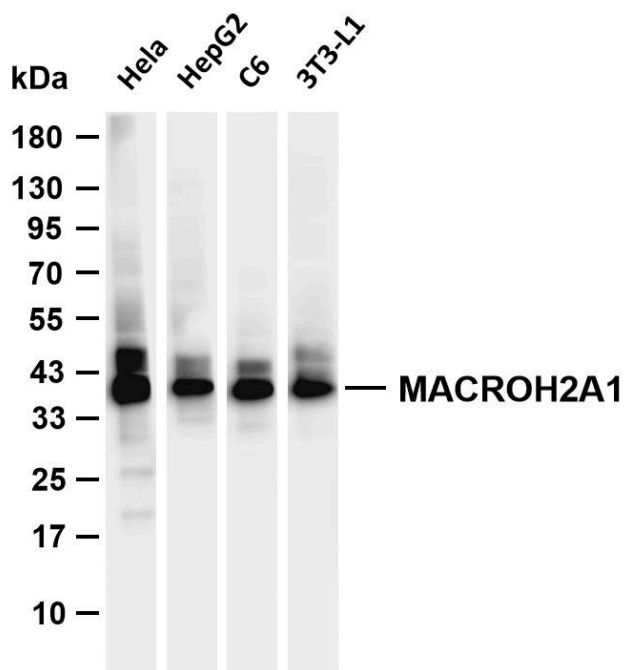
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MACROH2A1 (PT2023R) antibody. The HRP-conjugated Goat anti-mouse IgG (H + L) antibody was used to detect the antibody.

Lane 1: HeLa
Lane 2: HepG2
Lane 3: C6
Lane 4: 3T3-L1

Predicted band size: 39kDa
Observed band size: 39kDa