



# MACROH2A1 (PT2023R) Rabbit mAb

<b>Catalog No</b>	YP-rAb-18533
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human,Mouse,Rat
<b>Applications</b>	WB、IHC、IF、ELISA
<b>Gene Name</b>	H2AFY MACROH2A1
<b>Protein Name</b>	Core histone macro-H2A.1 (Histone macroH2A1) (mH2A1) (Histone H2A.y) (H2A/y) (Medulloblastoma antigen MU-MB-50.205)
<b>Immunogen</b>	The specific immunogen used to produce this antibody is proprietary information.
<b>Specificity</b>	Endogenous
<b>Formulation</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
<b>Source</b>	Monoclonal, Rabbit,IgG
<b>Purification</b>	Recombinant Antibody expressed in animal component-free (ACF) media, purified via Protein A affinity chromatography.
<b>Dilution</b>	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#YS0004)
<b>Concentration</b>	0.2 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	39kD
<b>Calculated Molecular Weight</b>	39kD
<b>Cell Pathway</b>	Nucleus . Chromosome . Enriched in inactive X chromosome chromatin and in senescence-associated heterochromatin. .
<b>Tissue Specificity</b>	Widely expressed.
<b>Function</b>	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

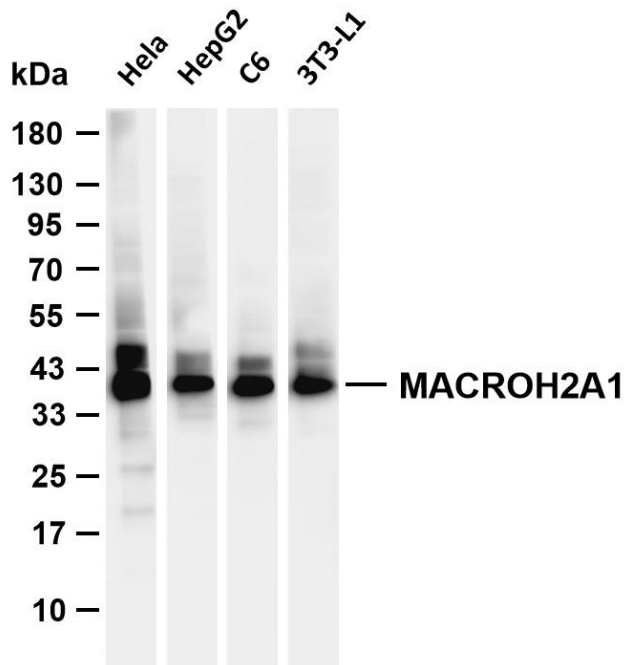
### matters needing attention

Avoid repeated freezing and thawing!

### Usage suggestions

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

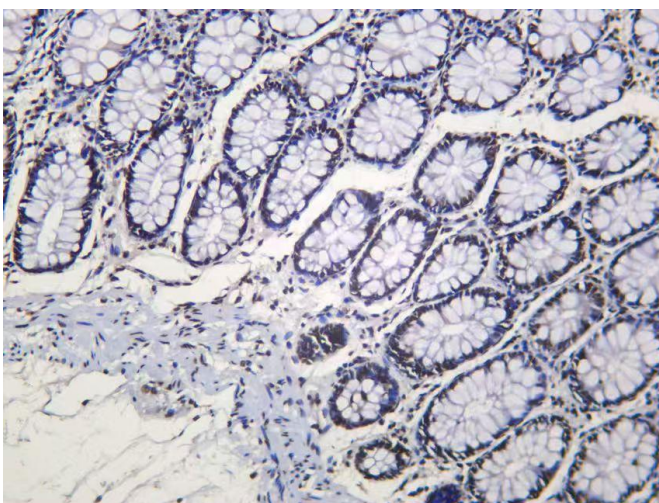
## Products Images



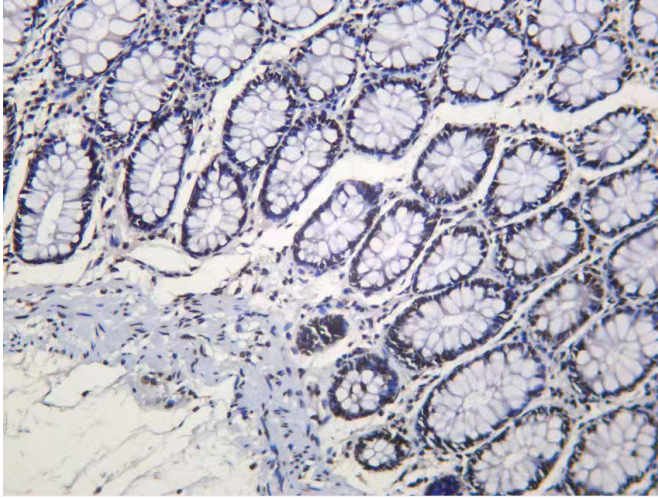
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MACROH2A1 (PT2023R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

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

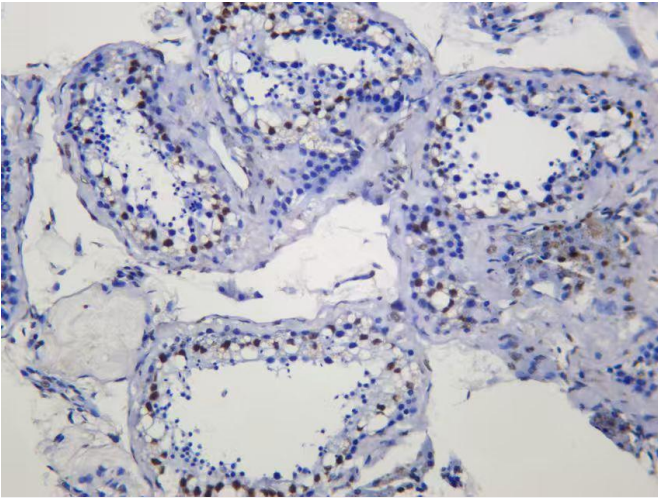
Predicted band size: 39kDa  
Observed band size: 39kDa



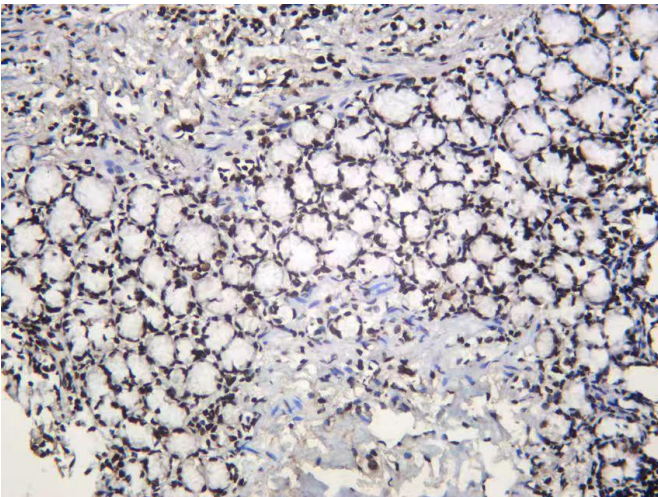
Human colon was stained with anti-MACROH2A1 (PT2023R) Rabbit antibody



Human colon was stained with anti-MACROH2A1 (PT2023R) Rabbit antibody



Human testis was stained with anti-MACROH2A1 (PT2023R) Rabbit antibody



Rat colon was stained with anti-MACROH2A1 (PT2023R) Rabbit antibody