

## DATASHEET

# MacroH2A1 Rabbit Monoclonal Antibody(C794)

CAT. NO. AMA00406

### KEY FEATURES

Target	MacroH2A1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Monoclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.	Storage	at-20°C

### 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, including NF-kappa-B, and interferes with the activity of remodeling SWI/SNF complexes .

### APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

### PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to MacroH2A1
Specificity	Recognizes endogenous levels of MacroH2A1 protein
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within human MacroH2A1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 39 kD; Observed: 40 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Alternative Names	MACROH2A1; Core histone macro-H2A.1; Histone macroH2A1; mH2A1; Histone H2A.y; H2A/y; Medulloblastoma antigen MU-MB-50.205
Gene Symbol	H2AFY
Entrez Gene	9555(Human); 26914(Mouse); 29384(Rat)
SwissProt	O75367(Human); Q9QZQ8(Mouse); Q02874(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

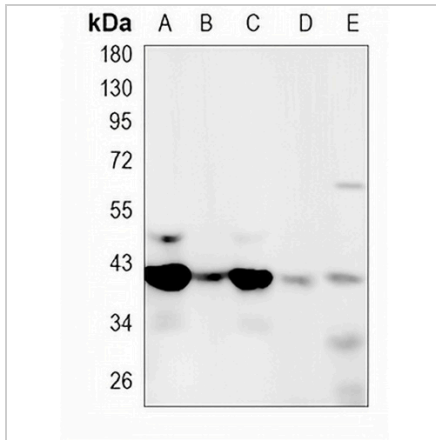
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET**

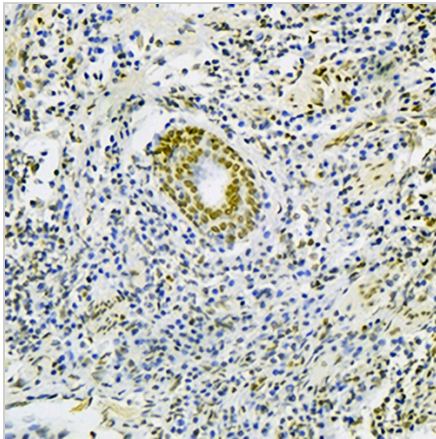
**MacroH2A1 Rabbit Monoclonal Antibody(C794)**

CAT. NO. AMA00406

**DATA**



Western blot analysis of MacroH2A1 expression in HEK293T (A), MCF7 (B), HeLa (C), mouse muscle (D), rat kidney (E) whole cell lysates. (Predicted band size: 39 kD; Observed band size: 40 kD)



Immunohistochemical analysis of MacroH2A1 staining in human lung formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.