

Macro H2A.1 Monoclonal Antibody | anti-MacroH2A.1 antibody

Macro H2A.1 Rabbit mAb

CATALOG # AAA314401	HOST Recombinant Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Western Blot
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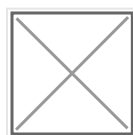
PRODUCT SYNONYMS

Macro H2A.1; Monoclonal Antibody; Macro H2A.1 Rabbit mAb; H2A.y; H2A/y; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2; anti-MacroH2A.1 antibody

PRODUCT SPECIFICATIONS

Host	Recombinant Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	S04-8E5
Purity/Purification	Affinity Purified
Form/Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration	0.3mg/ml (varies by lot)
Applicable Applications for anti-MacroH2A.1 antibody	IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthetic peptide of human macroH2A.1
Conjugation	Unconjugated
Modification	Unmodification
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of macroH2A.1(green) in HeLa cells using macroH2A.1 Rabbit mAb at dilution 1/50, and DAPI(blue)



WB (Western Blot)

Western blot detection of macroH2A.1 in Rat Brain, C6,3T3 cell lysates using macroH2A.1 Rabbit mAb(1:1000 diluted). Predicted band size: 40kDa. Observed band size: 40kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MacroH2A.1 antibody	Variant histone H2A which replaces conventional H2A in a subset of nucleosomes where it represses transcription (PubMed:12718888, PubMed:15621527, PubMed:16428466). 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 (PubMed:15897469). Inhibits the binding of transcription factors, including NF-kappa-B, and interferes with the activity of remodeling SWI/SNF complexes (PubMed:12718888, PubMed:16428466). Inhibits histone acetylation by EP300 and recruits class I HDACs, which induces a hypoacetylated state of chromatin (PubMed:16428466, PubMed:16107708).
Product Categories/Family for anti-MacroH2A.1 antibody	Primary Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	93141020
NCBI GeneID	9555
NCBI Accession #	NP_001035248.1
NCBI GenBank Nucleotide #	NM_001040158.1
UniProt Accession #	O75367; O75377; Q503A8; Q7Z5E3; Q96D41; Q9H8P3; Q9UP96
Molecular Weight	39,489 Da
NCBI Official Full Name	core histone macro-H2A.1 isoform 2
NCBI Official Synonym Full Names	H2A histone family member Y
NCBI Official Symbol	H2AFY
NCBI Official Synonym Symbols	H2A.y; H2A/y; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2
NCBI Protein Information	core histone macro-H2A.1
UniProt Protein Name	Core histone macro-H2A.1
UniProt Gene Name	H2AFY
UniProt Synonym Gene Names	MACROH2A1; Histone macroH2A1; mH2A1; H2A/y

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/macro-h2a1-antibody-clone-s04-8e5-immunofluorescence-western-blot-elisa/314401>