

Rabbit H2AFY/MACROH2A1 Polyclonal Antibody | anti-H2AFY/MACROH2A1 antibody

Anti-H2AFY/MACROH2A1 Antibody Picoband

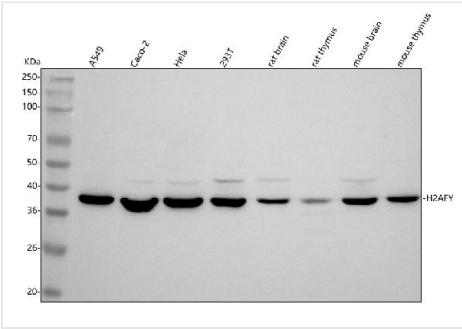
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19821	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, ELISA

PRODUCT SYNONYMS

H2AFY/MACROH2A1; Polyclonal Antibody; Anti-H2AFY/MACROH2A1 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-H2AFY/MACROH2A1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-H2AFY/MACROH2A1 antibody	WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), ELISA
Application Notes	WB: 0.1-0.25ug/ml, Human, Mouse, Rat IHC: 1-2ug/ml, Human ICC/IF: 5ug/ml, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human H2AFY/MACROH2A1 recombinant protein (Position: A180-K301). Human MACROH2A1 shares 97.5% amino acid (aa) sequence identity with both mouse and rat MACROH2A1.
Subcellular Localization	Cytoplasm, Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross reactivity with other proteins.
Protein Function	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



IF (Immunofluorescence)

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ADDITIONAL INFORMATION

Related Product Information for anti-H2AFY/MACROH2A1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-H2AFY/MACROH2A1 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Chakravarthy, S., Gundimella, S. K. Y., Caron, C., Perche, P.-Y., Pehrson, J. R., Khochbin, S., Luger, K. Structural characterization of the histone variant macroH2A. Molec. Cell. Biol. 25: 7616-7624, 2005. 2. Kapoor, A., Goldberg, M. S., Cumberland, L. K., Ratnakumar, K., Segura, M. F., Emanuel, P. O., Menendez, S., Vardabasso, C., LeRoy, G., Vidal, C. I., Polsky, D., Osman, I., Garcia, B. A., Hernando, E., Bernstein, E. The histone variant macroH2A suppresses melanoma progression through regulation of CDK8. Nature 468: 1105-1109, 2010. 3. Kragesteen, B. K., Brancati, F., Digilio, M. C., Mundlos, S., Spielmann, M. H2AFY promoter deletion causes PITX1 endoactivation and Liebenberg syndrome. J. Med. Genet. 56: 246-251, 2019.

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.