

Rabbit anti-Human Ribonuclease H2, subunit A/RNASEH2A Polyclonal Antibody | anti-RNASEH2A antibody

Anti-Ribonuclease H2, subunit A/RNASEH2A Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127442	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

Ribonuclease H2; subunit A/RNASEH2A; Polyclonal Antibody; Anti-Ribonuclease H2; subunit A/RNASEH2A Antibody Picoband; Gamma-aminobutyric acid type B receptor subunit 1; mucin 20; cell surface associated; Mucin-20; MUC-20; MUC20; KIAA1359; UNQ2782/PRO7170; anti-RNASEH2A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly Expressed in kidney, moderately in placenta, lung, prostate, liver, and digestive system. In the kidney, localized in the proximal tubules but not in the glomerulus or distal tubules. Detected in most of the male urogenital tract epithelia, with the exception of epididymis.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RNASEH2A antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human Ribonuclease H2, subunit A/RNASEH2A recombinant protein (Position: R25-L299).
Subcellular Localization	Apical cell membrane. Basolateral cell membrane. Microvillus membrane. Secreted.
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	May regulate MET signaling cascade. Seems to decrease hepatocyte growth factor (HGF)-induced transient MAPK activation. Blocks GRB2 recruitment to MET thus suppressing the GRB2-RAS pathway. Inhibits HGF-induced proliferation of MMP1 and MMP9 expression.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of K562 cells using anti-RNASEH2A antibody (AAA127442).Overlay histogram showing K562 cells stained with AAA127442 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RNASEH2A Antibody (AAA127442, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of RNASEH2A using anti-RNASEH2A antibody (AAA127442).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hela whole cell lysates,Lane 2: human Jurkat whole cell lysates,Lane 3: human HepG2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RNASEH2A antigen affinity purified polyclonal antibody (#AAA127442) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RNASEH2A at approximately 33 kDa. The expected band size for RNASEH2A is at 33 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RNASEH2A 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-RNASEH2A antibody	Primary Antibodies ; Interleukins
References	1. Coffin, S. R., Hollis, T., Perrino, F. W. Functional consequences of the RNase H2A subunit mutations that cause Aicardi-Goutieres syndrome. J. Biol. Chem. 286: 16984-16991, 2011. 2. Crow, Y. J., Leitch, A., Hayward, B. E., Garner, A., Parmar, R., Griffith, E., Ali, M., Semple, C., Aicardi, J., Babul-Hirji, R., Baumann, C., Baxter, P., and 33 others. Mutations in genes encoding ribonuclease H2 subunits cause Aicardi-Goutieres syndrome and mimic congenital viral brain infection. Nature Genet. 38: 910-916, 2006.3. Frank, P., Braunshofer-Reiter, C., Wintersberger, U., Grimm, R., Busen, W. Cloning of the cDNA encoding the large subunit of human RNase HI, a homologue of the prokaryotic RNase HII. Proc. Nat. Acad. Sci. 95: 12872-12877, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20981704
NCBI GeneID	10535
UniProt Accession #	O75792 ; Q96F11 ; B2RCY1
Molecular Weight	299
NCBI Official Full Name	Ribonuclease H2 subunit A
NCBI Official Synonym Full Names	ribonuclease H2, subunit A
NCBI Official Symbol	RNASEH2A
NCBI Official Synonym Symbols	AGS4; JUNB; RNHL; RNHIA; RNASEHI
NCBI Protein Information	ribonuclease H2 subunit A; RNase H(35); RNase H2 subunit A; RNase HI large subunit; ribonuclease HI subunit A; ribonuclease HI large subunit; ribonuclease H2, large subunit; ribonuclease HI, large subunit; aicardi-Goutieres syndrome 4 protein
UniProt Protein Name	Ribonuclease H2 subunit A
UniProt Gene Name	RNASEH2A
UniProt Synonym Gene Names	RNASEHI; RNHIA; RNase H2 subunit A; AGS4; RNase HI large subunit
UniProt Entry Name	RNH2A_HUMAN

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/polyclonal/ribonuclease-h2-subunit-a-rnaseh2a-antibody-flow-cytometry-western-blot-elisa/127442>