

Rabbit anti-Mouse, Rat RNase L/Rnasel Polyclonal Antibody | anti-Rnasel antibody

Anti-RNase L/Rnasel Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125662	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RNase L/Rnasel; Polyclonal Antibody; Anti-RNase L/Rnasel Antibody; Rnasel; Rns4; 2-5A-dependent ribonuclease; 2-5A-dependent RNase; EC 3. 1. 26. -; Ribonuclease 4; Ribonuclease L; RNase L; ribonuclease L (2'; 5'-oligoadenylate synthetase-dependent); anti-Rnasel antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for RNase L/Rnasel detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-Rnasel antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived mouse RNase L/Rnasel recombinant protein (Position: E24-S735).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of NRK cells using anti-RNase L/Rnasel antibody (AAA125662). Overlay histogram showing NRK cells stained with AAA125662 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RNase L/Rnasel Antibody (AAA125662, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEPA1-6 cells using anti-RNase L/Rnasel antibody (AAA125662). Overlay histogram showing HEPA1-6 cells stained with AAA125662 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RNase L/Rnasel Antibody (AAA125662, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of RNase L/RnaseI using anti-RNase L/RnaseI antibody (AAA125662). 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 30ug of sample under reducing conditions. Lane 1: mouse lung tissue lysates Lane 2: mouse Raw264.7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-RNase L/RnaseI antigen affinity purified polyclonal antibody (Catalog # AAA125662) at 0.5 µg/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 RNase L/RnaseI at approximately 83KD. The expected band size for RNase L/RnaseI is at 83KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RnaseI antibody	RNase L is an enzyme that in humans is encoded by the RNASEL gene. This gene encodes a component of the interferon-regulated 2-5A system that functions in the antiviral and antiproliferative roles of interferons. Mutations in this gene have been associated with predisposition to prostate cancer and this gene is a candidate for the hereditary prostate cancer 1 (HPC1) allele.
References	1. RNase L inhibitor: a new component of the interferon-regulated 2-5A pathway. J. Biol. Chem. 270: 13308-13317, 1995. 2. Carpten, J., Nupponen, N., Isaacs, S., Sood, R., Robbins, C., Xu, J., Faruque, M., Moses, T., Ewing, C., Gillanders, E., Hu, P., Bujnovszky, P., and 29 others. Germline mutations in the ribonuclease L gene in families showing linkage with HPC1. Nature Genet. 30: 181-184, 2002. 3. Casey, G., Neville, P. J., Plummer, S. J., Xiang, Y., Krumroy, L. M., Klein, E. A., Catalona, W. J., Nupponen, N., Carpten, J. D., Trent, J. M., Silverman, R. H., Witte, J. S. RNASEL arg462Gln variant is implicated in up to 13% of prostate cancer cases. Nature Genet. 32: 581-583, 2002.

NCBI AND UNIPROT INFORMATION

NCBI GI #	31982957
NCBI GeneID	24014
NCBI Accession #	NP_036012.1
NCBI GenBank Nucleotide #	NM_011882.2
UniProt Accession #	Q05921; Q9ERU7
Molecular Weight	83,275 Da
NCBI Official Full Name	2-5A-dependent ribonuclease
NCBI Official Synonym Full Names	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)
NCBI Official Symbol	RnaseI
NCBI Official Synonym Symbols	E230029I04Rik
NCBI Protein Information	2-5A-dependent ribonuclease
UniProt Protein Name	2-5A-dependent ribonuclease
UniProt Gene Name	RnaseI
UniProt Synonym Gene Names	Rns4; 2-5A-dependent RNase; RNase L

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/rnase-l-rnase-l-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125662>