

Rabbit anti-Human RRN3 Polyclonal Antibody | anti-RRN3 antibody

Anti-RRN3 Antibody Picoband

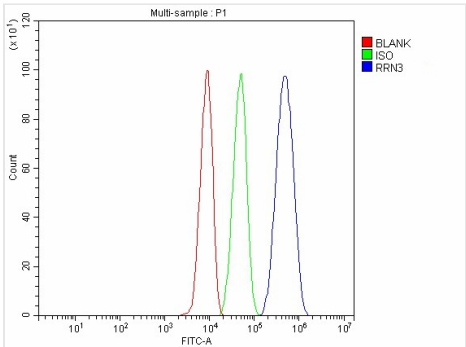
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127298	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RRN3; Polyclonal Antibody; Anti-RRN3 Antibody Picoband; anti-RRN3 antibody

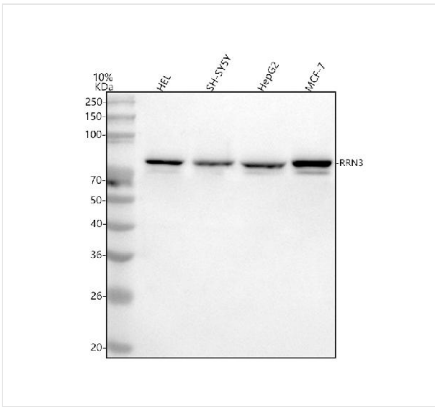
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
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-RRN3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RRN3 recombinant protein (Position: D184-L651). Human RRN3 shares 87.4% amino acid (aa) sequence identity with mouse RRN3.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-RRN3 antibody (AAA127298). Overlay histogram showing HepG2 cells stained with AAA127298 (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-RRN3 Antibody (AAA127298, 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 RRN3 using anti-RRN3 antibody (AAA127298). 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 HEL whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: human MCF-7 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-RRN3 antigen affinity purified polyclonal antibody (#AAA127298) 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 RRN3 at approximately 74 kDa. The expected band size for RRN3 is at 74 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RRN3 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-RRN3 antibody	Primary Antibodies
References	1. Mayer, C., Bierhoff, H., Grummt, I. The nucleolus as a stress sensor: JNK2 inactivates the transcription factor TIF-1A and down-regulates rRNA synthesis. Genes Dev. 19: 933-941, 2005. 2. Moorefield, B., Greene, E. A., Reeder, R. H. RNA polymerase I transcription factor Rrn3 is functionally conserved between yeast and human. Proc. Nat. Acad. Sci. 97: 4724-4729, 2000. 3. Yuan, X., Zhou, Y., Casanova, E., Chai, M., Kiss, E., Grone, H.-J., Schutz, G., Grummt, I. Genetic inactivation of the transcription factor TIF-1A leads to nucleolar disruption, cell cycle arrest, and p53-mediated apoptosis. Molec. Cell 19: 77-87, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	93102377
NCBI GeneID	54700
NCBI Accession #	NP_060897.3
NCBI GenBank Nucleotide #	NM_018427.3
UniProt Accession #	Q9NYV6; Q6IPL4; Q9H4F0; A2RTY9
Molecular Weight	74,107 Da
NCBI Official Full Name	RNA polymerase I-specific transcription initiation factor RRN3
NCBI Official Synonym Full Names	RRN3 RNA polymerase I transcription factor homolog (S. cerevisiae)

NCBI Official Symbol	RRN3
NCBI Official Synonym Symbols	TIFIA; A-270G1.2
NCBI Protein Information	RNA polymerase I-specific transcription initiation factor RRN3; TIF-IA; transcription initiation factor IA; transcription initiation factor TIF-IA
UniProt Protein Name	RNA polymerase I-specific transcription initiation factor RRN3
UniProt Gene Name	RRN3
UniProt Synonym Gene Names	TIFIA; TIF-IA
UniProt Entry Name	RRN3_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://www.aaabiotech.com/polyclonal/rrn3-antibody-flow-cytometry-western-blot-elisa/127298>