

Rabbit RRP7A Polyclonal Antibody | anti-RRP7A antibody

Anti-RRP7A Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127866	Rabbit	Human, Monkey	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RRP7A; Polyclonal Antibody; Anti-RRP7A Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-RRP7A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
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-RRP7A antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human RRP7A recombinant protein (Position: M1-D181).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
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	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
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.



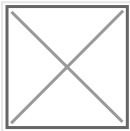
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of SiHa cells using anti-RRP7A antibody (AAA127866). Overlay histogram showing SiHa cells stained with AAA127866 (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-RRP7A Antibody (AAA127866, 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.



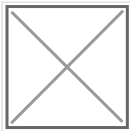
IF (Immunofluorescence)

Figure 3. IF analysis of RRP7A and Tubulin beta using anti-RRP7A antibody (AAA127866) and anti-Tubulin beta antibody (M05613-4). RRP7A and Tubulin beta was detected in an immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RRP7A Antibody (AAA127866) and mouse anti-Tubulin beta Antibody (M05613-4) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of RRP7A using anti-RRP7A antibody (AAA127866). RRP7A was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-RRP7A Antibody (AAA127866) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of RRP7A using anti-RRP7A antibody (AAA127866). 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 A341 whole cell lysates, Lane 2: human MCF-7 whole cell lysates, Lane 3: human 293T whole cell lysates, Lane 4: monkey COS-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-RRP7A antigen affinity purified polyclonal antibody (#AAA127866) 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 RRP7A at approximately 37 kDa. The expected band size for RRP7A is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RRP7A 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-RRP7A antibody	Primary Antibodies; Cell Biology
References	1. Farooq, M., Lindbaek, L., Krogh, N., Doganli, C., Keller, C., Monnich, M., Goncalves, A. B., Sakthivel, S., Mang, Y., Fatima, A., Andersen, V. S., Hussain, M. S., and 11 others. RRP7A links primary microcephaly to dysfunction of ribosome biogenesis, resorption of primary cilia, and neurogenesis. Nature Commun. 11: 5816, 2020. 2. Maserati, M., Dai, X., Walentuk, M., Mager, J. Identification of four genes required for mammalian blastocyst formation. Zygote 22: 331-339, 2012.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25092725
NCBI GeneID	27341
NCBI Accession #	NP_056518.2
NCBI GenBank Nucleotide #	NM_015703.4
UniProt Accession #	Q9Y3A4; Q0VAD0; Q5JZ94; Q6P4B5; Q8IVR9; Q8IVY0; Q8N5Q3; Q8NEY6; Q9Y3H5; A4FTX2; B2RBG4
Molecular Weight	32,334 Da

NCBI Official Full Name	ribosomal RNA-processing protein 7 homolog A
NCBI Official Synonym Full Names	ribosomal RNA processing 7 homolog A (S. cerevisiae)
NCBI Official Symbol	RRP7A
NCBI Official Synonym Symbols	CGI-96; BK126B4.3
NCBI Protein Information	ribosomal RNA-processing protein 7 homolog A; CTA-126B4.5; gastric cancer antigen Zg14
UniProt Protein Name	Ribosomal RNA-processing protein 7 homolog A
UniProt Gene Name	RRP7A
UniProt Synonym Gene Names	CGI-96
UniProt Entry Name	RRP7A_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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