

## Rabbit anti-Human LRRC47 Polyclonal Antibody | anti-LRRC47 antibody

Anti-LRRC47 Antibody Picoband

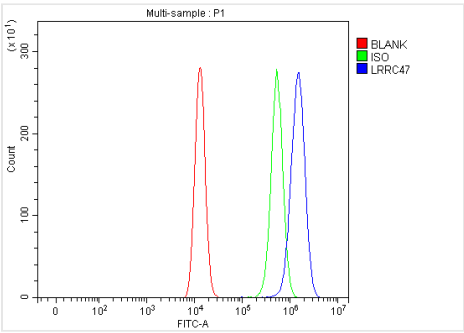
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA127841 | Rabbit | Human      | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

LRRC47; Polyclonal Antibody; Anti-LRRC47 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-LRRC47 antibody

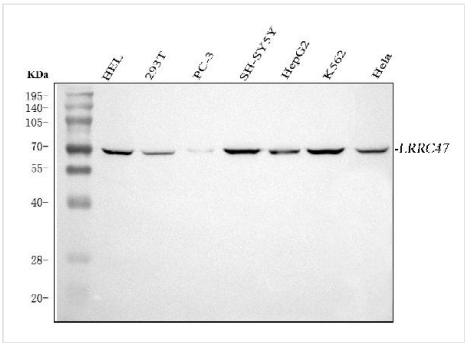
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                                                                         |
| Reactivity                                       | Human                                                                                                                                                                                                                                                                                                                                                          |
| 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-LRRC47 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                                                                                                                                                            |
| Immunogen                                        | E coli-derived human LRRC47 recombinant protein (Position: L309-R583).                                                                                                                                                                                                                                                                                         |
| 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.                                                                                                                                          |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEL cells using anti-LRRC47 antibody (AAA127841). Overlay histogram showing HEL cells stained with AAA127841 (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-LRRC47 Antibody (AAA127841, 1ug/1x10<sup>6</sup> 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/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of LRRC47 using anti-LRRC47 antibody (AAA127841). 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 293T whole cell lysates, Lane 3: human PC-3 whole cell lysates, Lane 4: human SH-SY5Y whole cell lysates, Lane 5: human HepG2 whole cell lysates, Lane 6: human K562 whole cell lysates, Lane 7: human Hela 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-LRRC47 antigen affinity purified polyclonal antibody (#AAA127841) at 0.25ug/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 LRRC47 at approximately 68 kDa. The expected band size for LRRC47 is at 63 kDa.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-LRRC47 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-LRRC47 antibody   | Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins                                                                                                                                                                                                                     |
| References                                           | 1. Gross, M. B. Personal Communication. Baltimore, Md. 1/14/2021.2. Hirose, M., Nagase, T., Ishikawa, K., Kikuno, R., Nomura, N., Ohara, O. Characterization of cDNA clones selected by the GeneMark analysis from size-fractionated cDNA libraries from human brain. DNA Res. 6: 329-336, 1999. |

NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 24308207                                  |
| NCBI GeneID                      | 57470                                     |
| NCBI Accession #                 | NP_065761.1                               |
| NCBI GenBank Nucleotide #        | NM_020710.2                               |
| UniProt Accession #              | Q8N1G4; Q9ULN5                            |
| Molecular Weight                 | 63,473 Da                                 |
| NCBI Official Full Name          | leucine-rich repeat-containing protein 47 |
| NCBI Official Synonym Full Names | leucine rich repeat containing 47         |
| NCBI Official Symbol             | LRRC47                                    |
| NCBI Protein Information         | leucine-rich repeat-containing protein 47 |
| UniProt Protein Name             | Leucine-rich repeat-containing protein 47 |

|                            |             |
|----------------------------|-------------|
| UniProt Gene Name          | LRRC47      |
| UniProt Synonym Gene Names | KIAA1185    |
| UniProt Entry Name         | LRC47_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/lrrc47-antibody-flow-cytometry-western-blot-elisa/127841>