

Rabbit PIK3R5 Polyclonal Antibody | anti-PIK3R5 antibody

Anti-PIK3R5 Antibody Picoband

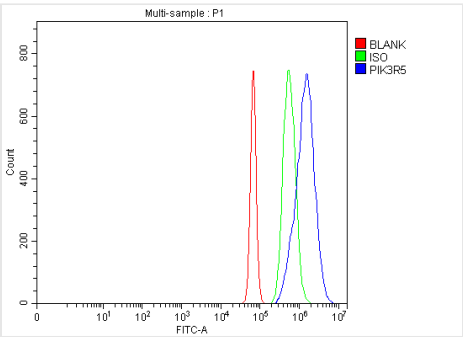
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127144	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

PIK3R5; Polyclonal Antibody; Anti-PIK3R5 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-PIK3R5 antibody

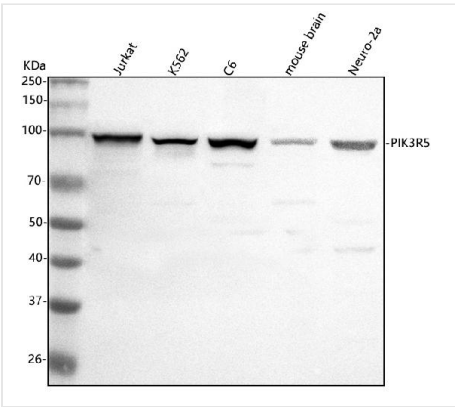
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
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-PIK3R5 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PIK3R5 recombinant protein (Position: E170-L864). Human PIK3R5 shares 83.9% amino acid (aa) sequence identity with mouse PIK3R5.
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 JK cells using anti-PIK3R5 antibody (AAA127144). Overlay histogram showing JK cells stained with AAA127144 (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-PIK3R5 Antibody (AAA127144, 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 (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of PIK3R5 using anti-PIK3R5 antibody (AAA127144). 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 Jurkat whole cell lysates, Lane 2: human K562 whole cell lysates, Lane 3: rat C6 whole cell lysates, Lane 4: mouse brain tissue lysates, Lane 5: mouse Neuro-2a whole cell tissue 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-PIK3R5 antigen affinity purified polyclonal antibody (#AAA127144) 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 PIK3R5 at approximately 97 kDa. The expected band size for PIK3R5 is at 97,55 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PIK3R5 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-PIK3R5 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Al Tassan, N., Khalil, D., Shinwari, J., Al Sharif, L., Bavi, P., Abduljaleel, Z., Abu Dhaim, N., Magrashi, A., Bobis, S., Ahmed, H., AlAhmed, S., Bohlega, S. A missense mutation in PIK3R5 gene in a family with ataxia and oculomotor apraxia. Hum. Mutat. 33: 351-354, 2012.2. Brock, C., Schaefer, M., Reusch, H. P., Czupalla, C., Michalke, M., Spicher, K., Schultz, G., Nurnberg, B. Roles of G-beta-gamma in membrane recruitment and activation of p110-gamma/p101 phosphoinositide 3-kinase gamma. J. Cell Biol. 160: 89-99, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	217330639
NCBI GeneID	23533
NCBI Accession #	NP_001136105.1
NCBI GenBank Nucleotide #	NM_001142633.2
UniProt Accession #	Q8WYR1; Q5G936; Q5G938; Q5G939; Q8IZ23; Q9Y2Y2; B0LPH4; D3DTS3
Molecular Weight	97,348 Da
NCBI Official Full Name	phosphoinositide 3-kinase regulatory subunit 5 isoform 1
NCBI Official Synonym Full Names	phosphoinositide-3-kinase, regulatory subunit 5
NCBI Official Symbol	PIK3R5

NCBI Official Synonym Symbols	p101; FOAP-2; P101-PI3K; F730038I15Rik
NCBI Protein Information	phosphoinositide 3-kinase regulatory subunit 5; protein FOAP-2; ptdIns-3-kinase p101; PI3-kinase p101 subunit; phosphatidylinositol 4,5-bisphosphate 3-kinase regulatory subunit; phosphatidylinositol-4,5-bisphosphate 3-kinase regulatory subunit
UniProt Protein Name	Phosphoinositide 3-kinase regulatory subunit 5
UniProt Gene Name	PIK3R5
UniProt Synonym Gene Names	PI3-kinase regulatory subunit 5
UniProt Entry Name	PI3R5_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/pik3r5-antibody-flow-cytometry-western-blot-elisa/127144>