Rabbit anti-Human PIK3R4 Polyclonal Antibody | anti-PIK3R4 antibody

Anti-PIK3R4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127389	**Rabbit**	**Human**	**ELISA, Flow Cytometry, Functional Assay, Western Blot**

PRODUCT SYNONYMS

PIK3R4; Polyclonal Antibody; Anti-PIK3R4 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-PIK3R4 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-PIK3R4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PIK3R4 recombinant protein (Position: R36-Q1339). Human PIK3R4 shares 95.7% and 95.6% amino acid (aa) sequence identity with mouse and rat PIK3R4, respectively.
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.

IMAGES

FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-VPS15/PIK3R4 antibody (AAA127389).Overlay histogram showing HepG2 cells stained with AAA127389 (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-VPS15/PIK3R4 Antibody (AAA127389, 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 VPS15/PIK3R4 using anti-VPS15/PIK3R4 antibody (AAA127389).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 Hela whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human 293T 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-VPS15/PIK3R4 antigen affinity purified polyclonal antibody (#AAA127389) 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 VPS15/PIK3R4 at approximately 150 kDa. The expected band size for VPS15/PIK3R4 is at 153 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PIK3R4 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-PIK3R4 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Gross, M. B. Personal Communication. Baltimore, Md. 5/16/2018.2. Gstrein, T., Edwards, A., Pristoupilova, A., Leca, I., Breuss, M., Pilat-Carotta, S., Hansen, A. H., Tripathy, R., Traunbauer, A. K., Hochstoeger, T., Rosoklija, G., Repic, M., and 15 others. Mutations in Vps15 perturb neuronal migration in mice and are associated with neurodevelopmental disease in humans. Nature Neurosci. 21: 207-217, 2018. Note: Erratum: Nature Neurosci. 21: 1139 only, 2018. 3. Panaretou, C., Domin, J., Cockcroft, S., Waterfield, M. D. Characterization of p150, an adaptor protein for the human phosphatidylinositol (PtdIns) 3-kinase: substrate presentation by phosphatidylinositol transfer protein to the p150-PtdIns 3-kinase complex. J. Biol. Chem. 272: 2477-2485, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23943912
NCBI GeneID	30849
NCBI Accession #	NP_055417
NCBI GenBank Nucleotide #	NM_014602.2
UniProt Accession #	Q99570; Q2TBF4
Molecular Weight	Predicted: 149 kDa Observed: 140 kDa
NCBI Official Full Name	phosphoinositide 3-kinase regulatory subunit 4
NCBI Official Synonym Full Names	phosphoinositide-3-kinase, regulatory subunit 4
NCBI Official Symbol	PIK3R4
NCBI Official Synonym Symbols	p150; VPS15
NCBI Protein Information	phosphoinositide 3-kinase regulatory subunit 4; PI3-kinase p150 subunit; PI3-kinase regulatory subunit 4; phosphoinositide 3-kinase adaptor protein; phosphatidylinositol 3-kinase-associated p150; phosphoinositide-3-kinase, regulatory subunit 4, p150

UniProt Protein Name	Phosphoinositide 3-kinase regulatory subunit 4
UniProt Gene Name	**PIK3R4**
UniProt Synonym Gene Names	PI3-kinase regulatory subunit 4
UniProt Entry Name	PI3R4_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://stage.aaabiotech.com/polyclonal/pik3r4-antibody-flow-cytometry-western-blot-elisa/127389