

Rabbit anti-Human RIOK3 Polyclonal Antibody | anti-RIOK3 antibody

Anti-RIOK3 Antibody Picoband

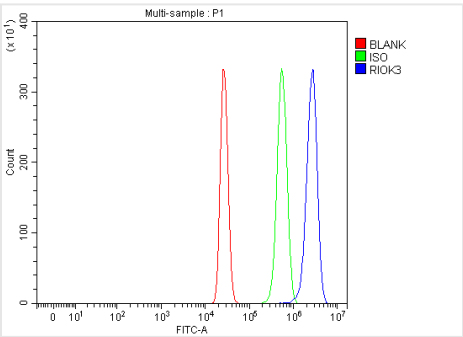
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127576	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

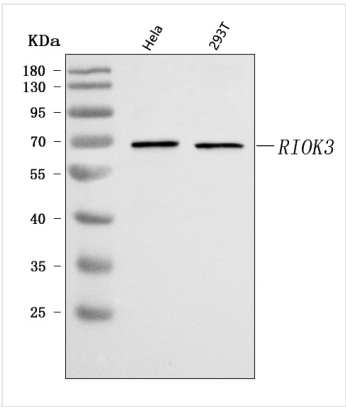
RIOK3; Polyclonal Antibody; Anti-RIOK3 Antibody Picoband; Nck-associated protein 1; NAP 1; Membrane-associated protein HEM-2; p125Nap1; NCKAP1; HEM2; KIAA0587; NAP1; anti-RIOK3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in all tissues examined except peripheral blood leukocytes, with highest expression in brain, heart, and skeletal muscle.
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-RIOK3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RIOK3 recombinant protein (Position: Q48-E519).
Subcellular Localization	Cell membrane, Single-pass membrane protein, Cytoplasmic side, Cell projection, lamellipodium membrane, Single-pass membrane protein, Cytoplasmic side, At the interface between the lamellipodial actin meshwork and the membrane.
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	Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1.
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-RIOK3 antibody (AAA127576). Overlay histogram showing HepG2 cells stained with AAA127576 (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-RIOK3 Antibody (AAA127576, 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 R1OK3 using anti-RIOK3 antibody (AAA127576). 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 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-RIOK3 antigen affinity purified polyclonal antibody (#AAA127576) 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 R1OK3 at approximately 65 kDa. The expected band size for R1OK3 is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RIOK3 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-RIOK3 antibody	Primary Antibodies; Neurogenesis; Neurology Process; Neuroscience; NFKB Pathway; Nuclear Signaling; Signal Transduction; Signaling Pathway
References	1. Anaya, P., Evans, S. C., Dai, C., Lozano, G., May, G. S. Isolation of the Aspergillus nidulans sudD gene and its human homologue. Gene 211: 323-329, 1998.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112180703
NCBI GeneID	8780
UniProt Accession #	O14730; Q8IXN9
Molecular Weight	58,671 Da
NCBI Official Full Name	RIOK3 protein
NCBI Official Synonym Full Names	RIO kinase 3
NCBI Official Symbol	RIOK3
NCBI Official Synonym Symbols	SUDD
NCBI Protein Information	serine/threonine-protein kinase RIO3
UniProt Protein Name	Serine/threonine-protein kinase RIO3
UniProt Gene Name	RIOK3

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/riok3-antibody-flow-cytometry-western-blot-elisa/127576>