

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

Anti-RIOK3 Antibody Picoband

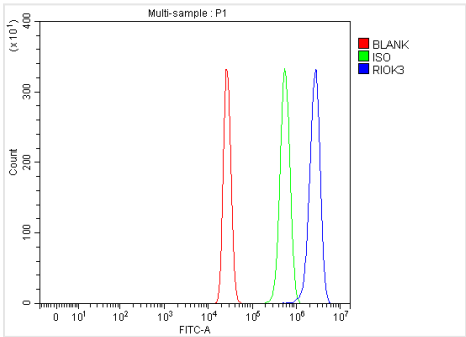
|                               |                       |                            |                                                                              |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA127576</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Flow Cytometry, Functional Assay, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

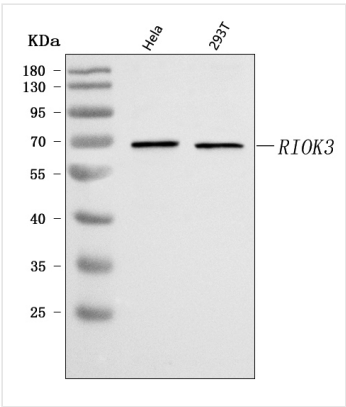
RIOK3; Polyclonal Antibody; Anti-RIOK3 Antibody Picoband; Nck-associated protein 1; NAP 1; Membrane-associated protein HEM-2; p125Nap1; NCKAP1; HEM2; KIAA0587; NAP1; anti-RIOK3 antibody

### 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 <sub>2</sub> HPO <sub>4</sub> .                                                                                                                              |
| 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 RIOK3 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 RIOK3 at approximately 65 kDa. The expected band size for RIOK3 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.

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