

## Rabbit ROCK1 Polyclonal Antibody | anti-ROCK1 antibody

Anti-ROCK1 Antibody Picoband

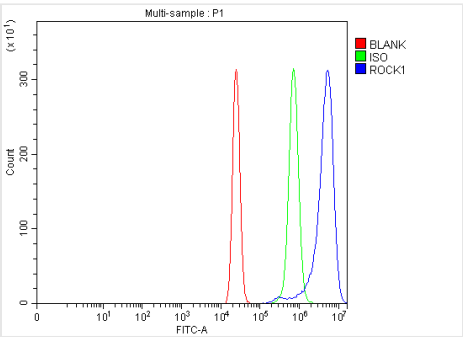
| CATALOG # | HOST   | REACTIVITY                | APPLICATIONS                                          |
|-----------|--------|---------------------------|-------------------------------------------------------|
| AAA126065 | Rabbit | Human, Monkey, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

ROCK1; Polyclonal Antibody; Anti-ROCK1 Antibody Picoband; anti-ROCK1 antibody

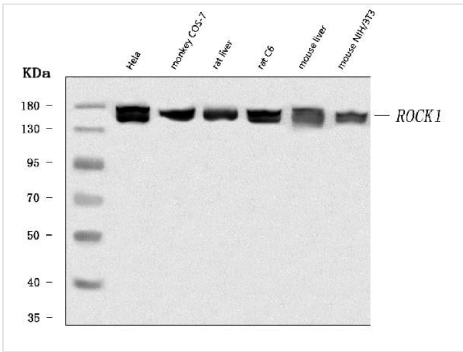
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                       |
| Reactivity                                      | Human, Monkey, Mouse, Rat                                                                                                                                                                                                    |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                   |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                   |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                                                 |
| Form/Format                                     | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                     |
| Concentration                                   | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                    |
| Applicable Applications for anti-ROCK1 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                          |
| Reconstitution                                  | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                    |
| Immunogen                                       | E Coli-derived human ROCK1 recombinant protein (Position: K601-R833).                                                                                                                                                        |
| Preparation and Storage                         | Store 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 U2OS cells using anti-ROCK1 antibody (AAA126065).Overlay histogram showing U2OS cells stained with AAA126065 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ROCK1 Antibody (AAA126065, 1 ug/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 (1 ug/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 ROCK1 using anti-ROCK1 antibody (AAA126065).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: monkey COS-7 whole cell lysates,Lane 3: rat liver tissue lysates,Lane 4: rat C6 whole cell lysates,Lane 5: mouse liver tissue lysates,Lane 6: mouse NIH/3T3 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-ROCK1 antigen affinity purified polyclonal antibody (#AAA126065) at 0.5 ug/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 ROCK1 at approximately 160 kDa. The expected band size for ROCK1 is at 158 kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ROCK1 antibody | This gene encodes a protein serine/threonine kinase that is activated when bound to the GTP-bound form of Rho. The small GTPase Rho regulates formation of focal adhesions and stress fibers of fibroblasts, as well as adhesion and aggregation of platelets and lymphocytes by shuttling between the inactive GDP-bound form and the active GTP-bound form. Rho is also essential in cytokinesis and plays a role in transcriptional activation by serum response factor. This protein, a downstream effector of Rho, phosphorylates and activates LIM kinase, which in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. A pseudogene, related to this gene, is also located on chromosome 18. |
| Product Categories/Family for anti-ROCK1 antibody   | Primary Antibodies, Rabbit Polyclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 47605999                                                                                                                                                                                                                 |
| NCBI GeneID                      | 6093                                                                                                                                                                                                                     |
| UniProt Accession #              | Q13464; Q2KHM4; Q59GZ4; B0YJ91                                                                                                                                                                                           |
| Molecular Weight                 | 1354                                                                                                                                                                                                                     |
| NCBI Official Full Name          | Rho-associated protein kinase 1                                                                                                                                                                                          |
| NCBI Official Synonym Full Names | Rho-associated, coiled-coil containing protein kinase 1                                                                                                                                                                  |
| NCBI Official Symbol             | ROCK1                                                                                                                                                                                                                    |
| NCBI Official Synonym Symbols    | ROCK-I; P160ROCK                                                                                                                                                                                                         |
| NCBI Protein Information         | rho-associated protein kinase 1; p160-ROCK; Rho kinase; p160 ROCK-1; renal carcinoma antigen NY-REN-35; rho-associated, coiled-coil-containing protein kinase 1; rho-associated, coiled-coil-containing protein kinase I |
| UniProt Protein Name             | Rho-associated protein kinase 1                                                                                                                                                                                          |

|                            |                  |
|----------------------------|------------------|
| UniProt Gene Name          | ROCK1            |
| UniProt Synonym Gene Names | ROCK-I; p160ROCK |
| UniProt Entry Name         | ROCK1_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/rock1-antibody-flow-cytometry-western-blot-elisa/126065>