

## Rabbit Pirh2/RCHY1 Polyclonal Antibody | anti-Pirh2/RCHY1 antibody

Anti-Pirh2/RCHY1 Antibody Picoband

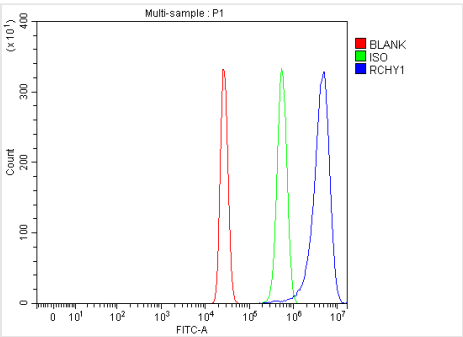
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA127236 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

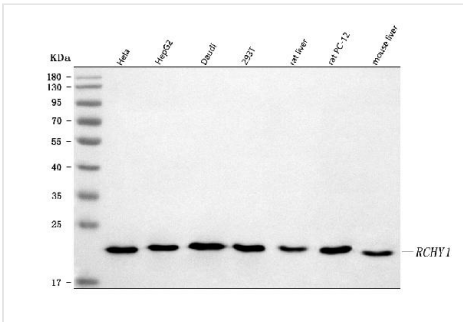
Pirh2/RCHY1; Polyclonal Antibody; Anti-Pirh2/RCHY1 Antibody Picoband; RAB11B; member RAS oncogene family; Ras-related protein Rab-11B; GTP-binding protein YPT3; YPT3; anti-Pirh2/RCHY1 antibody

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reactivity                                            | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Clonality                                             | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Isotype                                               | Rabbit IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity                                           | Expressed in all tissues except liver. Highest levels found in heart, skeletal muscle and pancreas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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-Pirh2/RCHY1 antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen                                             | E coli-derived human Pirh2/RCHY1 recombinant protein (Position: Q17-Q250).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Subcellular Localization                              | Recycling endosome membrane, Lipid-anchor, Synaptic vesicle membrane, Phagosome 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                                      | The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors ly responsible for vesicle formation, movement, tethering and fusion. That Rab plays a role in endocytic recycling, regulating apical recycling of several transmembrane proteins including cystic fibrosis transmembrane conductance regulator/CFTR, epithelial sodium channel/ENaC, potassium voltage-gated channel, and voltage-dependent L-type calcium channel. May also regulate constitutive and regulated secretion, like insulin granule exocytosis. Required for melanosome transport and release from melanocytes. Also regulates V-ATPase intracellular transport in response to extracellular acidosis. |
| 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-Pirh2/RCHY1 antibody (AAA127236). Overlay histogram showing HepG2 cells stained with AAA127236 (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-Pirh2/RCHY1 Antibody (AAA127236, 1ug/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 (1ug/1x10<sup>6</sup>) 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 Pirh2/RCHY1 using anti-Pirh2/RCHY1 antibody (AAA127236). 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 Daudi whole cell lysates, Lane 4: human 293T whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat PC-12 whole cell lysates, Lane 7: mouse liver 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-Pirh2/RCHY1 antigen affinity purified polyclonal antibody (#AAA127236) 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 Pirh2/RCHY1 at approximately 21 kDa. The expected band size for Pirh2/RCHY1 is at 30 kDa.

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-Pirh2/RCHY1 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-Pirh2/RCHY1 antibody   | Primary Antibodies; Angiogenesis; Cancer; Cardiovascular; Growth Factors; Growth Factors/Hormones; Invasion/Microenvironment; Neurogenesis; Neurology Process; Neuroscience; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| References                                                | 1. Fedorova, O. , Gudovich, A. , Daks, A. , Baidyuk, E. , & Barlev, N. A. . (2021). Regulation of autophagy flux by e3 ubiquitin ligase pirh2 in lung cancer. Biochemical and Biophysical Research Communications, 563, 119-125.2. Yifeng, Bao, Xue, Wu, Debin, & Yuan, et al. (2017). High expression of pirh2 is associated with poor prognosis in glioma. Cellular and molecular neurobiology.3. Yang, ShuyunChen, YingyingSun, FulanNi, QichaoWang, HuaHuang, YeqingZhang, ChunhuiLiu, KunWang, ShuoQiu, JianXu, ZhenHua, LuHe, Zhixian. (2016). Downregulated pirh2 can decrease the proliferation of breast cancer cells. Archives of medical research, 47(3). |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 32700008                                                                                       |
| NCBI GeneID                      | 25898                                                                                          |
| UniProt Accession #              | Q96PM5; Q2KN33; Q59GN7; Q86X26; B3KRG3; C7E541; C7E542; C7E543; D3YRV2; E7EMC8; E7ETW5; J3KPI0 |
| Molecular Weight                 | 261                                                                                            |
| NCBI Official Full Name          | RING finger and CHY zinc finger domain-containing protein 1                                    |
| NCBI Official Synonym Full Names | ring finger and CHY zinc finger domain containing 1, E3 ubiquitin protein ligase               |
| NCBI Official Symbol             | RCHY1                                                                                          |
| NCBI Official Synonym Symbols    | ZCHY; ARNIP; CHIMP; PIRH2; RNF199; ZNF363; PRO1996                                             |

|                            |                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Protein Information   | RING finger and CHY zinc finger domain-containing protein 1; zinc finger, CHY-type; RING finger protein 199; zinc finger protein 363; E3 ubiquitin-protein ligase Pirh2; CH-rich interacting match with PLAG1; p53-induced protein with a RING-H2 domain; andro |
| UniProt Protein Name       | RING finger and CHY zinc finger domain-containing protein 1                                                                                                                                                                                                     |
| UniProt Gene Name          | <b>RCHY1</b>                                                                                                                                                                                                                                                    |
| UniProt Synonym Gene Names | ARNIP; CHIMP; PIRH2; RNF199; ZNF363; hPirh2                                                                                                                                                                                                                     |
| UniProt Entry Name         | ZN363_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/pirh2-rchy1-antibody-flow-cytometry-western-blot-elisa/127236>