

## Rabbit CIT Polyclonal Antibody | anti-CIT antibody

Anti-CIT Antibody Picoband

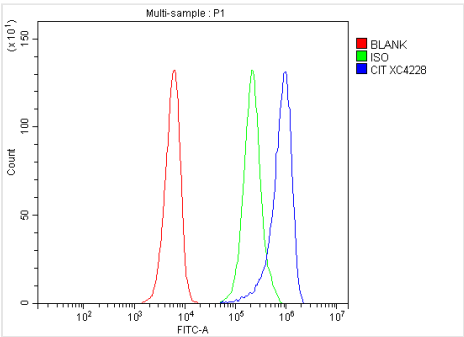
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                          |
|-----------|--------|-------------------|-------------------------------------------------------|
| AAA128235 | Rabbit | Human, Mouse, Rat | ELISA, Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

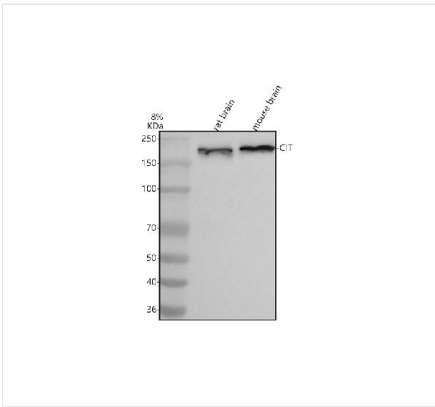
CIT; Polyclonal Antibody; Anti-CIT Antibody Picoband; Citron Rho-interacting kinase; citron rho-interacting serine/threonine kinase; CRIK; KIAA0949; STK21; EC 2.7.11.1; Serine/threonine-protein kinase 21; anti-CIT antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                                     |
| Clonality                                     | Polyclonal                                                                                                                                                                                                            |
| Isotype                                       | Rabbit IgG                                                                                                                                                                                                            |
| 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-CIT antibody | ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                   |
| Immunogen                                     | E coli-derived human CIT recombinant protein (Position: Q470-H1505). Human CIT shares 95.2% and 94.7% amino acid (aa) sequence identity with mouse and rat CIT, respectively.                                         |
| Reconstitution                                | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                             |
| Cross Reactivity                              | No cross-reactivity with other proteins                                                                                                                                                                               |
| 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 SiHa cells using anti-CIT antibody (AAA128235).Overlay histogram showing SiHa cells stained with AAA128235 (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-CIT Antibody (AAA128235, 1ug/1x10<sup>6</sup> cells) for 30 min at 20 degree C. DyLight®488 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 CIT using anti-CIT antibody (AAA128235).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: rat brain tissue lysates,Lane 2: mouse brain 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-CIT antigen affinity purified polyclonal antibody (AAA128235) 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 CIT at approximately 231 kDa. The expected band size for CIT is at 231 kDa.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CIT 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-CIT antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| References                                        | 1. Basit, S., Al-Harbi, K. M., Alhijji, S. A. M., Albalawi, A. M., Alharby, E., Eldardear, A., Samman, M. I. CIT, a gene involved in neurogenic cytokinesis, is mutated in human primary microcephaly. Hum. Genet. 135: 1199-1207, 2016.2. Di Cunto, F., Calautti, E., Hsiao, J., Ong, L., Topley, G., Turco, E., Dotto, G. P. Citron Rho-interacting kinase, a novel tissue-specific ser/thr kinase encompassing the Rho-Rac-binding protein citron. J. Biol. Chem. 273: 29706-29711, 1998.3. Di Cunto, F., Imarisio, S., Hirsch, E., Broccoli, V., Bulfone, A., Migheli, A., Atzori, C., Turco, E., Triolo, R., Dotto, G. P., Silengo, L., Altruda, F. Defective neurogenesis in citron kinase knockout mice by altered cytokinesis and massive apoptosis. Neuron 28: 115-127, 2000. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                      |
|----------------------------------|------------------------------------------------------|
| NCBI GI #                        | 332801082                                            |
| NCBI GeneID                      | 11113                                                |
| NCBI Accession #                 | NP_001193928.1                                       |
| NCBI GenBank Nucleotide #        | NM_001206999.1                                       |
| UniProt Accession #              | O14578; Q2M5E1; Q6XUH8; Q86UQ9; Q9UPZ7               |
| Molecular Weight                 | 231,431 Da                                           |
| NCBI Official Full Name          | citron Rho-interacting kinase isoform 1              |
| NCBI Official Synonym Full Names | citron (rho-interacting, serine/threonine kinase 21) |
| NCBI Official Symbol             | CIT                                                  |

|                               |                                                                   |
|-------------------------------|-------------------------------------------------------------------|
| NCBI Official Synonym Symbols | CRIK; STK21                                                       |
| NCBI Protein Information      | citron Rho-interacting kinase; serine/threonine-protein kinase 21 |
| UniProt Protein Name          | Citron Rho-interacting kinase                                     |
| UniProt Gene Name             | <b>CIT</b>                                                        |
| UniProt Synonym Gene Names    | CRIK; KIAA0949; STK21; CRIK                                       |
| UniProt Entry Name            | CTRO_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/cit-antibody-flow-cytometry-western-blot-elisa/128235>