

Rabbit PHACTR1 Polyclonal Antibody | anti-PHACTR1 antibody

Anti-PHACTR1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127359	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

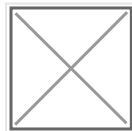
PRODUCT SYNONYMS

PHACTR1; Polyclonal Antibody; Anti-PHACTR1 Antibody Picoband; anti-PHACTR1 antibody

PRODUCT SPECIFICATIONS

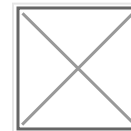
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-PHACTR1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human PHACTR1 recombinant protein (Position: K66-E395). Human PHACTR1 shares 94.8% and 95.2% amino acid (aa) sequence identity with mouse and rat PHACTR1, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A549 cells using anti-PHACTR1 antibody (AAA127359). Overlay histogram showing A549 cells stained with AAA127359 (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-PHACTR1 Antibody (AAA127359, 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 PHACTR1 using anti-PHACTR1 antibody (AAA127359). 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 A549 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: 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-PHACTR1 antigen affinity purified polyclonal antibody (#AAA127359) 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 PHACTR1 at approximately 69 kDa. The expected band size for PHACTR1 is at 66 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PHACTR1 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-PHACTR1 antibody	Primary Antibodies
References	1. Allen, P. B., Greenfield, A. T., Svenningsson, P., Haspeslagh, D. C., Greengard, P. Phactrs 1-4: a family of protein phosphatase 1 and actin regulatory proteins. Proc. Nat. Acad. Sci. 101: 7187-7192, 2004. 2. de Ligt, J., Willemsen, M. H., van Bon, B. W. M., Kleefstra, T., Yntema, H. G., Kroes, T., Vulto-van Silfhout, A. T., Koolen, D. A., de Vries, P., Gilissen, C., del Rosario, M., Hoischen, A., Scheffer, H., de Vries, B. B. A., Brunner, H. G., Veltman, J. A., Vissers, L. E. L. M. Diagnostic exome sequencing in persons with severe intellectual disability. New Eng. J. Med. 367: 1921-1929, 2012. 3. Hamada, N., Ogaya, S., Nakashima, M., Nishijo, T., Sugawara, Y., Iwamoto, I., Ito, H., Maki, Y., Shirai, K., Baba, S., Maruyama, K., Saitsu, H., Kato, M., Matsumoto, N., Momiyama, T., Nagata, K. De novo PHACTR1 mutations in West syndrome and their pathophysiological effects. Brain 141: 3098-3114, 2018.

NCBI AND UNIPROT INFORMATION

NCBI GI #	336391125
NCBI GeneID	221692
NCBI Accession #	NP_001229577.1
NCBI GenBank Nucleotide #	NM_001242648.1
UniProt Accession #	Q9C0D0; Q3MJ93; Q5JSJ2; A8K1V2
Molecular Weight	66,308 Da
NCBI Official Full Name	phosphatase and actin regulator 1
NCBI Official Synonym Full Names	phosphatase and actin regulator 1
NCBI Official Symbol	PHACTR1
NCBI Official Synonym Symbols	RPEL; RPEL1; dJ257A7.2
NCBI Protein Information	phosphatase and actin regulator 1; RPEL repeat containing 1
UniProt Protein Name	Phosphatase and actin regulator 1
UniProt Gene Name	PHACTR1
UniProt Synonym Gene Names	KIAA1733; RPEL1
UniProt Entry Name	PHAR1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/phactr1-antibody-flow-cytometry-western-blot-elisa/127359>