

Rabbit Arp3/ACTR3 Polyclonal Antibody | anti-ACTR3 antibody

Anti-Arp3/ACTR3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125693	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

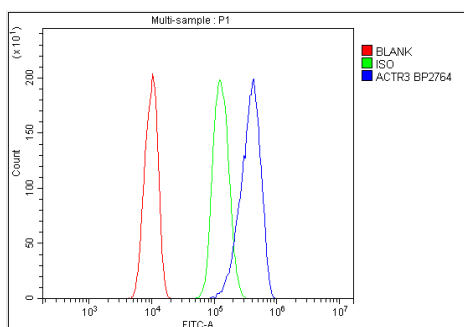
PRODUCT SYNONYMS

Arp3/ACTR3; Polyclonal Antibody; Anti-Arp3/ACTR3 Antibody; Actin-related protein 3; Actin-like protein 3; ACTR3; ARP3; actin related protein 3; anti-ACTR3 antibody

PRODUCT SPECIFICATIONS

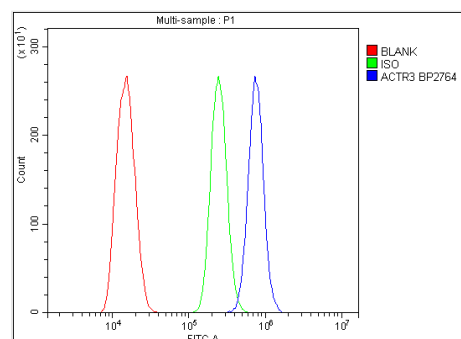
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Arp3/ACTR3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg NaN ₃ .
Applicable Applications for anti-ACTR3 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human Arp3/ACTR3 recombinant protein (Position: M1-S418).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



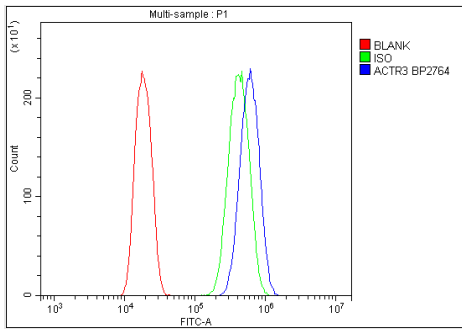
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of C6 cells using anti-Arp3/ACTR3 antibody (AAA125693). Overlay histogram showing C6 cells stained with AAA125693 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Arp3/ACTR3 Antibody (AAA125693, 1 µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10 µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



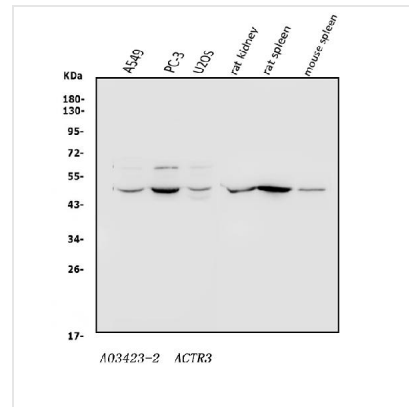
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of ANA-1 cells using anti-Arp3/ACTR3 antibody (AAA125693). Overlay histogram showing ANA-1 cells stained with AAA125693 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Arp3/ACTR3 Antibody (AAA125693, 1 µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10 µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of A431 cells using anti-Arp3/ACTR3 antibody (AAA125693). Overlay histogram showing A431 cells stained with AAA125693 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Arp3/ACTR3 Antibody (AAA125693, 1 μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10 μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of Arp3/ACTR3 using anti-Arp3/ACTR3 antibody (AAA125693). 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 50 μg of sample under reducing conditions. Lane 1: human A549 whole cell lysates Lane 2: human PC-3 whole lysates Lane 3: human U2OS whole cell lysates Lane 4: rat kidney tissue lysates Lane 5: rat spleen tissue lysates Lane 6: mouse spleen tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Arp3/ACTR3 antigen affinity purified polyclonal antibody (Catalog # AAA125693) at 0.5 μg/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 1:10000 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 Arp3/ACTR3 at approximately 47KD. The expected band size for Arp3/ACTR3 is at 47KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ACTR3 antibody	The specific function of this gene has not yet been determined; however, the protein it encodes is known to be a major constituent of the ARP2/3 complex. This complex is located at the cell surface and is essential to cell shape and motility through lamellipodial actin assembly and protrusion. Three transcript variants encoding two different isoforms have been found for this gene.
References	- Kim, J., Lee, J. E., Heynen-Genel, S., Suyama, E., Ono, K., Lee, K., Ideker, T., Aza-Blanc, P., Gleeson, J. G. Functional genomic screen for modulators of ciliogenesis and cilium length. <i>Nature</i> 464: 1048-1051, 2010. - Machesky, L. M., Reeves, E., Wientjes, F., Mattheyse, F. J., Grogan, A., Totty, N. F., Burlingame, A. L., Hsuan, J. J., Segal, A. W. Mammalian actin-related protein 2/3 complex localizes to regions of lamellipodial protrusion and is composed of evolutionarily conserved proteins. <i>Biochem. J.</i> 328: 105-112, 1997. - Robinson, R. C., Turbedsky, K., Kaiser, D. A., Marchand, J. -B., Higgs, H. N., Choe, S., Pollard, T. D. Crystal structure of Arp2/3 complex. <i>Science</i> 294: 1679-1684, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031573
NCBI GeneID	10096
NCBI Accession #	NP_005712.1
NCBI GenBank Nucleotide #	NM_005721.4
UniProt Accession #	P61158; P32391; Q53QM2
Molecular Weight	47,371 Da
NCBI Official Full Name	actin-related protein 3 isoform 1
NCBI Official Synonym Full Names	ARP3 actin-related protein 3 homolog (yeast)
NCBI Official Symbol	ACTR3
NCBI Official Synonym Symbols	ARP3

NCBI Protein Information	actin-related protein 3; actin-like protein 3
UniProt Protein Name	Actin-related protein 3
UniProt Gene Name	ACTR3
UniProt Synonym Gene Names	ARP3
UniProt Entry Name	ARP3_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/arp3-actr3-antibody-direct-elisa-flow-cytometry-western-blot-elisa/125693>