SANTA CRUZ BIOTECHNOLOGY, INC.

p16-ARC (K-16): sc-65165

BACKGROUND

The Arp2/3 (actin-related protein 2/3) complex consists of seven subunits, all of which are actin-related proteins. The complex is involved in the control of actin polymerization and in mediating the formation of branched actin networks. p16-ARC, also known as ARPC5 (Actin-related protein 2/3 complex subunit 5) or ARC16 (Arp2/3 complex 16 kDa subunit), is a 151 amino acid subunit of the Arp2/3 complex. Thought to play a role in maintaining the integrity of Arp2/3, p16-ARC is a substrate for MAPKAPK-2, which, through phosphorylation of p16-ARC, may participate in Arp2/3 regulatory functions and remodeling of the Actin cytoskeleton. Two isoforms of p16-ARC exist due to alternative splicing events.

CHROMOSOMAL LOCATION

Genetic locus: ARPC5 (human) mapping to 1q25.3; Arpc5 (mouse) mapping to 1 G3.

SOURCE

p16-ARC (K-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of p16-ARC of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-65165 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

p16-ARC (K-16) is recommended for detection of p16-ARC of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with ARPC5L.

p16-ARC (K-16) is also recommended for detection of p16-ARC in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for p16-ARC siRNA (h): sc-62733, p16-ARC siRNA (m): sc-62734, p16-ARC shRNA Plasmid (h): sc-62733-SH, p16-ARC shRNA Plasmid (m): sc-62734-SH, p16-ARC shRNA (h) Lentiviral Part-icles: sc-62733-V and p16-ARC shRNA (m) Lentiviral Particles: sc-62734-V.

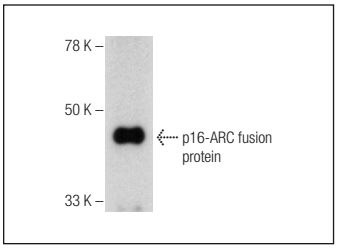
Molecular Weight of p16-ARC: 16 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411.

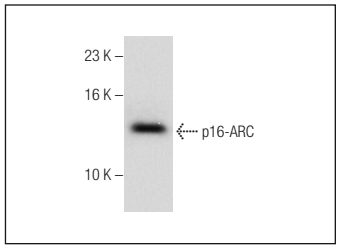
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



p16-ARC (K-16): sc-65165. Western blot analysis of human recombinant p16-ARC fusion protein.



p16-ARC (K-16): sc-65165. Western blot analysis of p16-ARC expression in U-87 MG whole cell lysate.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **p16-ARC (C-3): sc-166760**, our highly recommended monoclonal alternative to p16-ARC (K-16).