**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; Arp5 (mouse) mapping to 1 G3.

**SOURCE**

p16-ARC (C-3) is a mouse monoclonal antibody raised against amino acids 1-151 representing full length p16-ARC of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with ≤ 0.1% sodium azide and 0.1% gelatin. p16-ARC (C-3) is available conjugated to agarose (sc-166760 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166760 HRP), 200 µg/ml, for WB, IHC(P), and ELISA; to either phycoerythrin (sc-166760 PE), fluorescein (sc-166760 FITC), Alexa Fluor® 488 (sc-166760 AF488), Alexa Fluor® 546 (sc-166760 AF546), Alexa Fluor® 594 (sc-166760 AF594) or Alexa Fluor® 647 (sc-166760 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166760 AF680) or Alexa Fluor® 790 (sc-166760 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

p16-ARC (C-3) is recommended for detection of p16-ARC of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).


Molecular Weight of p16-ARC: 16 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HL-60 whole cell lysate: sc-2209 or HT-1080 whole cell lysate: sc-364183.

**STORAGE**

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

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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**RESEARCH USE**

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