



Arp7 (yC-20): sc-8961

BACKGROUND

The Actin-related yeast proteins Arp7 and Arp9 are cytoskeletal, structural proteins and are also components of the RSC (remodels the structure of chromatin) and SWI/SNF chromatin-remodeling complexes. Arp7 and Arp9 are 24-26% identical to, and 48-51% similar to, Actin. Deletion of either Arp7 or Arp9 has been shown to cause SWI/SNF phenotypes, such as growth defects on media containing galactose, glycerol, or sucrose as the sole carbon source. Arp7 and Arp9 also share similarities with HSP and HSC family ATPases, suggesting that SWI/SNF chromatin remodeling may involve chaperone-like activities.

REFERENCES

1. Schroer, T.A., Fyrberg, E., Cooper, J.A., Waterston, R.H., Helfman, D., Pollard, T.D. and Meyer, D.I. 1994. Actin-related protein nomenclature and classification. *J. Cell Biol.* 127: 1777-1778.
2. Poch, O. and Winsor, B. 1997. Who's who among the *Saccharomyces cerevisiae* Actin-related proteins? A classification and nomenclature proposal for a large family. *Yeast* 13: 1053-1058.
3. Peterson, C.L., Zhao, Y. and Chait, B.T. 1998. Subunits of the yeast SWI/SNF complex are members of the Actin-related protein (ARP) family. *J. Biol. Chem.* 273: 23641-23644.
4. Cairns, B.R., Erdjument-Bromage, H., Tempst, P., Winston, F. and Kornberg, R.D. 1998. Two Actin-related proteins are shared functional components of the chromatin-remodeling complexes RSC and SWI/SNF. *Mol. Cell* 2: 639-651.

SOURCE

Arp7 (yC-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Arp7 of *Saccharomyces cerevisiae* 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-8961 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.

PROTOCOLS

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

APPLICATIONS

Arp7 (yC-20) is recommended for detection of Arp7 of *Saccharomyces cerevisiae* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

SELECT PRODUCT CITATIONS

1. Sourirajan, A. and Lichten, M. 2008. Polo-like kinase Cdc5 drives exit from pachytene during budding yeast meiosis. *Genes Dev.* 22: 2627-2632.