

Recombinant Human ARPC1A, GST-tagged

Cat. No. ARPC1A-9881H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ARPC1A protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

Species Human

Source E.coli

ProteinLength 1-370a.a.

Description This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1B. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name [ARPC1A actin related protein 2/3 complex, subunit 1A, 41kDa \[Homo sapiens \]](#)

Official Symbol [ARPC1A](#)

Synonyms [ARPC1A](#); actin related protein 2/3 complex, subunit 1A, 41kDa; actin related protein 2/3 complex, subunit 1A (41 kD); actin-related protein 2/3 complex subunit 1A; actin binding protein (Schizosaccharomyces pombe sop2 like); Arc40; SOP2 like protein; SOP2Hs; SOP2L; SOP2-like protein; actin binding protein (Schizosaccharomyces pombe sop2-like);

Gene ID [10552](#)

mRNA Refseq [NM_001190996](#)

Protein Refseq [NP_001177925](#)

MIM [604220](#)

UniProt ID [Q92747](#)

Chromosome Location [7q](#)

Pathway [B Cell Receptor Signaling Pathway, organism-specific biosystem](#); [Bacterial invasion of epithelial cells, organism-specific biosystem](#); [Bacterial invasion of epithelial cells, conserved biosystem](#); [Fc gamma R-mediated phagocytosis, organism-specific biosystem](#); [Fc gamma R-mediated phagocytosis, conserved biosystem](#); [Pathogenic Escherichia coli infection, organism-specific biosystem](#); [Pathogenic Escherichia coli infection, conserved biosystem](#);

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Function

actin binding;

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