

### **Goat Anti-ARPC4 Antibody**

Peptide-affinity purified goat antibody Catalog # AF1111a

## **Specification**

## **Goat Anti-ARPC4 Antibody - Product Information**

Application WB
Primary Accession P59998

Other Accession NP 005709, 10093, 68089 (mouse)

Reactivity
Predicted
Host
Clonality
Concentration
Human
Mouse
Goat
Polyclonal
100ug/200ul

Isotype IgG
Calculated MW 19667

# **Goat Anti-ARPC4 Antibody - Additional Information**

#### **Gene ID** 10093

## **Other Names**

Actin-related protein 2/3 complex subunit 4, Arp2/3 complex 20 kDa subunit, p20-ARC, ARPC4, ARC20

#### **Format**

0.5~mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### **Precautions**

Goat Anti-ARPC4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

# **Goat Anti-ARPC4 Antibody - Protein Information**

#### Name ARPC4

# **Synonyms** ARC20

# **Function**

Actin-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF) (PubMed:<a href="http://www.uniprot.org/citations/9230079" target="\_blank">9230079</a>). The Arp2/3



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complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed: <a href="http://www.uniprot.org/citations/9230079" target=" blank">9230079</a>). In addition to its role in the cytoplasmic cytoskeleton, the Arp2/3 complex also promotes actin polymerization in the nucleus, thereby regulating gene transcription and repair of damaged DNA (PubMed: <a href="http://www.uniprot.org/citations/29925947" target=" blank">29925947</a>). The Arp2/3 complex promotes homologous recombination (HR) repair in response to DNA damage by promoting nuclear actin polymerization, leading to drive motility of double-strand breaks (DSBs) (PubMed:<a href="http://www.uniprot.org/citations/29925947" target=" blank">29925947</a>).

#### **Cellular Location**

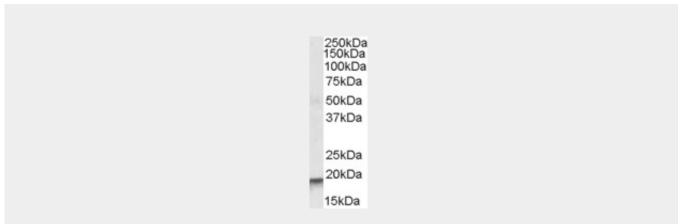
Cytoplasm, cytoskeleton. Cell projection. Nucleus

## Goat Anti-ARPC4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Goat Anti-ARPC4 Antibody - Images



AF1111a (0.03 µg/ml) staining of Human Lymph Node lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

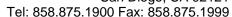
# Goat Anti-ARPC4 Antibody - Background

This gene encodes one of seven subunits of the human Arp2/3 protein complex. The Arp2/3 protein complex has been implicated in the control of actin polymerization in cells and has been conserved through evolution. The exact role of the protein encoded by this gene, the p20 subunit, has yet to be determined. Three transcript variants encoding two distinct isoforms have been found for this aene.

#### Goat Anti-ARPC4 Antibody - References

Large-scale mapping of human protein-protein interactions by mass spectrometry. Ewing RM, et al. Mol Syst Biol, 2007. PMID 17353931.







Coronin 3 involvement in F-actin-dependent processes at the cell cortex. Rosentreter A, et al. Exp Cell Res, 2007 Mar 10. PMID 17274980.

A human protein-protein interaction network: a resource for annotating the proteome. Stelzl U, et al. Cell, 2005 Sep 23. PMID 16169070.

Nucleolar proteome dynamics. Andersen JS, et al. Nature, 2005 Jan 6. PMID 15635413.

The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.