

**Anti-Arp3 Rabbit Monoclonal Antibody**  
**Catalog # ABO15268****Specification**

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**Anti-Arp3 Rabbit Monoclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC, IF, ICC, FC   |
| Primary Accession | <a href="#">P61158</a> |
| Host              | Rabbit                 |
| Isotype           | IgG                    |
| Reactivity        | Rat, Human, Mouse      |
| Clonality         | Monoclonal             |
| Format            | Liquid                 |

**Description**

Anti-Arp3 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications.  
This antibody reacts with Human, Mouse, Rat.

**Anti-Arp3 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 10096

**Other Names**

Actin-related protein 3, Actin-like protein 3, ACTR3, ARP3

**Calculated MW**

47 kDa KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>FC 1:30

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Arp3

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Arp3 Rabbit Monoclonal Antibody - Protein Information**

**Name** ACTR3

## Synonyms ARP3

### Function

ATP-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/9000076" target="\_blank">9000076</a>). The Arp2/3 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/9000076" target="\_blank">9000076</a>). Seems to contact the pointed end of the daughter actin filament (PubMed:<a href="http://www.uniprot.org/citations/9000076" target="\_blank">9000076</a>). In podocytes, required for the formation of lamellipodia downstream of AVIL and PLCE1 regulation (PubMed:<a href="http://www.uniprot.org/citations/29058690" target="\_blank">29058690</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/17220302" target="\_blank">17220302</a>, 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>). Plays a role in ciliogenesis (PubMed:<a href="http://www.uniprot.org/citations/20393563" target="\_blank">20393563</a>).

### Cellular Location

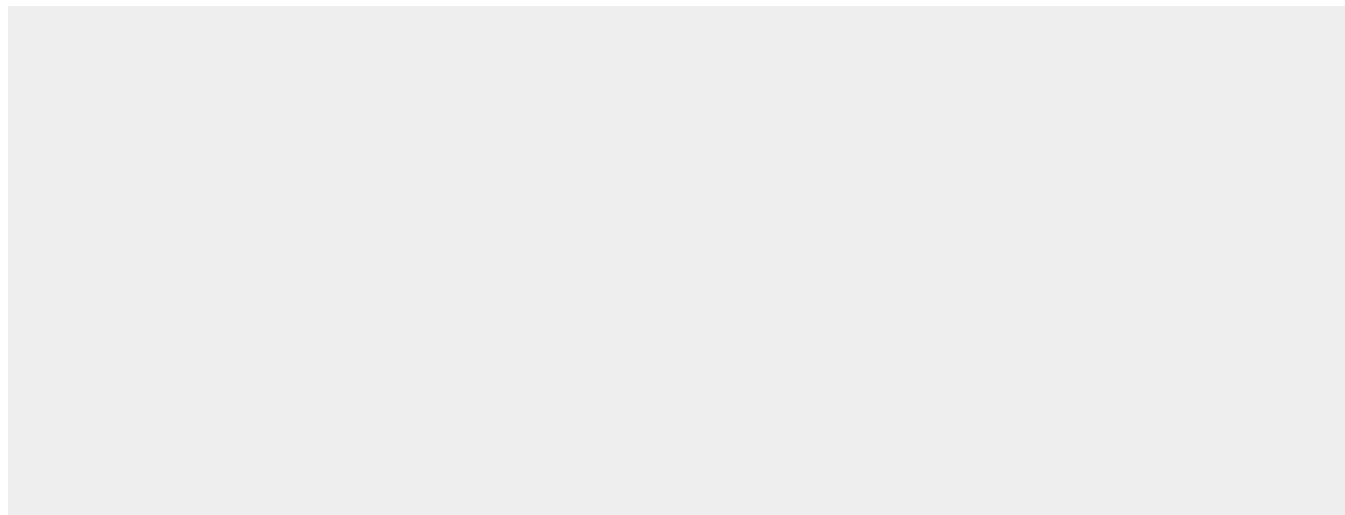
Cytoplasm, cytoskeleton. Cell projection. Nucleus. Note=In pre- apoptotic cells, colocalizes with MEIV in large specks (pyroptosomes) (PubMed:19109554)

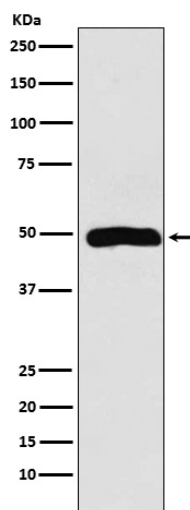
## Anti-Arp3 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Arp3 Rabbit Monoclonal Antibody - Images





Western blot analysis of Arp3 expression in Jurkat cell lysate.