

**Actin Related Protein 2 Rabbit mAb**  
Catalog # AP76394**Specification****Actin Related Protein 2 Rabbit mAb - Product Information**

Application	WB, IF
Primary Accession	<a href="#">P61160</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	44761

**Actin Related Protein 2 Rabbit mAb - Additional Information**

Gene ID 10097

**Other Names**

ACTR2

**Dilution**

WB~~1/500-1/1000

IF~~1/50-1/200

**Format**

Liquid

**Actin Related Protein 2 Rabbit mAb - Protein Information**

Name ACTR2

Synonyms ARP2

**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>).

#### Cellular Location

Cytoplasm, cytoskeleton. Cell projection. Nucleus

#### Actin Related Protein 2 Rabbit mAb - 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](#)

#### Actin Related Protein 2 Rabbit mAb - Images



