

Actin Related Protein 2 Rabbit mAb
Catalog # AP78403**Specification****Actin Related Protein 2 Rabbit mAb - Product Information**

Application	WB
Primary Accession	P61160
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

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:9000076). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:9000076). Seems to contact the pointed end of the daughter actin filament (PubMed:9000076). In podocytes, required for the formation of lamellipodia downstream of AVIL and PLCE1 regulation (PubMed:29058690). 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:17220302, PubMed:29925947). 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:29925947)

target="_blank">29925947).

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

