

# Arp2 Antibody

Rabbit mAb

Catalog # AP92501

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IHF
<b>Primary Accession</b>	<a href="#">P61160</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	ACTR2; ARP2; ARP2/3 COMPLEX;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	44761

## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human Arp2
<b>Description</b>	Functions as ATP-binding component of the Arp2/3 complex which is involved in regulation of actin polymerization and together with an activating nucleation-promoting factor (NPF) mediates the formation of branched actin networks.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	ACTR2
<b>Synonyms</b>	ARP2
<b>Function</b>	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="#">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="#">9000076</a> ). Seems to contact the pointed end of the daughter actin filament (PubMed: <a href="#">9000076</a> ). In podocytes, required for the formation of lamellipodia downstream of AVIL and PLCE1 regulation (PubMed: <a href="#">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="#">17220302</a> , PubMed: <a href="#">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)

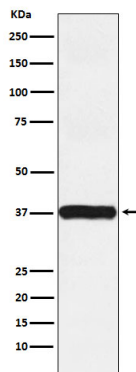
(PubMed:[29925947](#)).

## Cellular Location

Cytoplasm, cytoskeleton. Cell projection. Nucleus

## Images

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Western blot analysis of Arp2 expression in HUVEC cell lysate.

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