

Arp2 Antibody

Rabbit mAb Catalog # AP92501

Specification

Arp2 Antibody - Product Information

Application WB, IHC, ICC Primary Accession P61160

Reactivity Rat

Clonality Monoclonal

Other Names

ACTR2; ARP2; ARP2/3 COMPLEX;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 44761 Da

Arp2 Antibody - Additional Information

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

Arp2

Description 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.

Storage Condition and Buffer 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.

Arp2 Antibody - 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).

Cellular Location

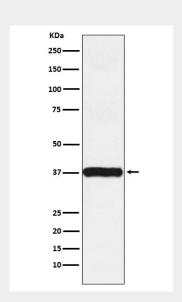
Cytoplasm, cytoskeleton. Cell projection. Nucleus

Arp2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Arp2 Antibody - Images



Western blot analysis of Arp2 expression in HUVEC cell lysate.