

Actin Related Protein 2 Rabbit pAb

Catalog No: #52715

Package Size: #52715-1 50ul #52715-2 100ul

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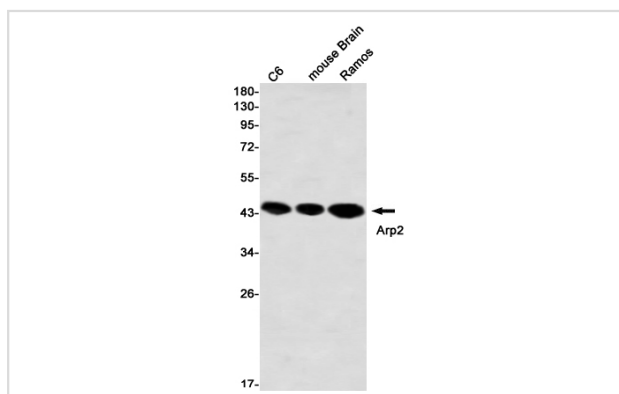
Description

Product Name	Actin Related Protein 2 Rabbit pAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S04-3H3
Isotype	IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human Arp2
Conjugates	Unconjugated
Modification	Unmodification
Other Names	ARP2
Accession No.	Swiss-Prot:P61160GeneID:10097
Calculated MW	Calculated MW:45 kDa,Observed MW:45 kDa
Formulation	50nM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/1000

Images



Western blot detection of Arp2 in C6,mouse Brain,Ramos using Arp2 Rabbit mAb(1:1000 diluted)

Background

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).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.