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KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1306

Product Information

Application	WB, FC, ICC
Primary Accession	O15144
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 2985
Calculated MW	34333
Gene Name	ARPC2
Aliases	Actin Related Protein 2/3 Complex Subunit 2;ARC34;P34-Arc;Actin-Related Protein 2/3 Complex Subunit;Arp2/3 Complex 34 KDa Subunit;Actin Related Protein 2/3 Complex, Subunit 2 (34 KD) ;Actin Related Protein 2/3 Complex, Subunit 2, 34kDa ;Actin Related Protein 2/3 Complex Subunit 2, 34kDa ;Testis Tissue Sperm-Binding Protein Li 53e ;ARP2/3 Protein Complex Subunit 34 ;PNAS-139 ;PRO2446;P34-ARC
Immunogen	A synthesized peptide derived from human ARPC2

Additional Information

Gene ID	10109
Other Names	Actin-related protein 2/3 complex subunit 2, Arp2/3 complex 34 kDa subunit, p34-ARC, ARPC2, ARC34

Protein Information

Name	ARPC2
Synonyms	ARC34
Function	Actin-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF) (PubMed:9230079). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:9230079). Seems to contact the mother actin filament (PubMed:9230079). 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: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. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

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