

Product datasheet for **TA324284**

Arp3 (ACTR3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500-2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 210 amino acids of human ARP3 actin-related protein 3 homolog (yeast)
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	47 kDa
Gene Name:	ARP3 actin-related protein 3 homolog (yeast)
Database Link:	NP_001264069 Entrez Gene 74117 MouseEntrez Gene 81732 RatEntrez Gene 10096 Human P61158



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Background:

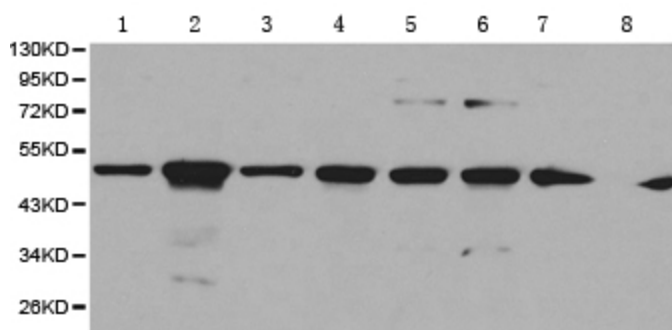
Actin nucleation, the formation of new actin filaments from existing filaments, affects actin filament structure during cell motility, division, and intracellular trafficking. An important actin nucleation protein complex is the highly conserved ARP2/3 complex, consisting of ARP2, ARP3, and ARPC1-5. The ARP2/3 complex promotes branching of an existing actin filament and formation of a daughter filament following activation by nucleation-promoting factors, such as WASP/WAVE or cortactin. The formation of podosomes, small cellular projections that degrade the extracellular matrix, is enhanced by ARP2/3 complex action. ARP2/3 competes with caldesmon, an actin binding protein shown to negatively affect podosome formation). Along with N-WASP, the ARP2/3 complex regulates nuclear actin filament nucleation and controls actin polymerization during transcription.

Synonyms:

ARP3

Protein Families:

Druggable Genome

Product images:

Predicted band size: 47 kDa. Positive control: k562, HL60, HeLa, Jurkat, Cos1 and Cos7 cell, mouse spleen and liver tissue lysate.
Recommended dilution: 1/500-2000. (Gel: 10%SDS-PAGE Lane 1: k562 cell lysate Lane 2:HL60 cell ysate Lane 3:HeLa cell lysate Lane 4:Jurkat cell lysate Lane 5: Cos1 cell lysate Lane 6: Cos7 cell lysate Lane 7:Mouse spleen tissue lysate Lane 8:Mouse liver tissue lysate; Primary antibody: 1/500; Secondary antibody: Goat anti Rabbit IgG - H&L (HRP): 1/10000)