

## Anti-Arp3/ACTR3 Antibody (2D811)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Clone:	2D811
Purification:	Affinity-chromatography

## Applications

	Western Blot
	-Positive WB detected in: PC-3 whole cell lysate, K562 whole cell lysate, HL-60 whole cell lysate, A549 whole cell lysate, Mouse Spleen whole cell lysate, Rat Spleen whole cell lysate
Verified Activity:	-All lanes: Arp3 Antibody at 1:1000 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 48 kDa -Observed band size: 48 kDa
Application:	ELISA,WB
Recommended	WB:1:500-1:5000.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human Arp3
Antigen Species:	Human
Gene ID:	10096
Uniprot ID:	P61158
Synonyms:	ARP3 actin-related protein 3 homolog (yeast);ARP3
Biology Area:	Tags & Cell Markers, Immunology

## Research Background

ATP-binding component of the Arp2/3 complex, a multiprotein complex that mediates actin polymerization upon stimulation by nucleation-promoting factor (NPF). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility. Seems to contact the pointed end of the daughter actin filament. In podocytes, required for the formation of lamellipodia downstream of AVIL and PLCE1 regulation. 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. 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). Plays a role in ciliogenesis.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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