

KD-Validated Anti-Arp2 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2297**Specification****KD-Validated Anti-Arp2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P61160
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 45 kDa, observed, 37 kDa kDa
Gene Name	ACTR2
Aliases	ACTR2; Actin Related Protein 2; ARP2; ARP2 Actin Related Protein 2 Homolog; Actin-Related Protein 2; Actin-Like Protein 2; ARP2 (Actin-Related Protein 2, Yeast) Homolog; ARP2 Actin-Related Protein 2 Homolog (Yeast)
Immunogen	A synthesized peptide derived from human Arp2

KD-Validated Anti-Arp2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	10097
Other Names	
Actin-related protein 2, Actin-like protein 2, ACTR2, ARP2	

KD-Validated Anti-Arp2 Rabbit Monoclonal 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

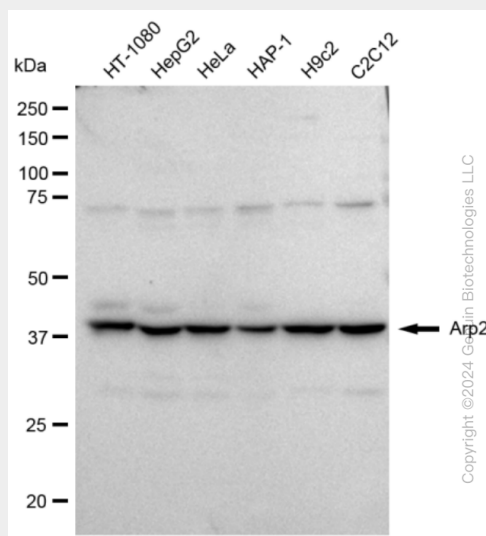
Cytoplasm, cytoskeleton. Cell projection. Nucleus

KD-Validated Anti-Arp2 Rabbit Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Arp2 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Arp2 antibody (Cat#AGI2297). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Arp2 antibody (Cat#AGI2297, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

