

**KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1306****Specification****KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">O15144</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 34 kDa , observed, 34 kDa KDa
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

**KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody - Additional Information**

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

**KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody - 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:<a href="http://www.uniprot.org/citations/9230079" target="\_blank">9230079</a>). The Arp2/3 complex mediates the formation of branched actin networks in the cytoplasm, providing the force for cell motility (PubMed:<a href="http://www.uniprot.org/citations/9230079" target="\_blank">9230079</a>). Seems to contact the mother actin filament (PubMed:<a href="http://www.uniprot.org/citations/9230079" target="\_blank">9230079</a>). 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:<a href="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>). 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:<a href="http://www.uniprot.org/citations/29925947" target="\_blank">29925947</a>).

#### Cellular Location

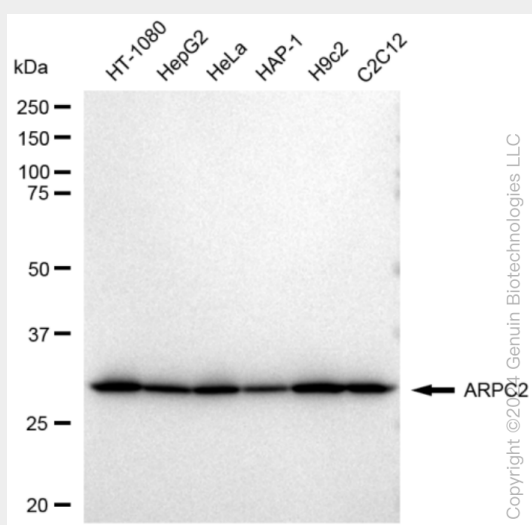
Cytoplasm, cytoskeleton. Cell projection. Synapse, synaptosome {ECO:0000250|UniProtKB:Q9CVB6}. Nucleus

#### KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody - Protocols

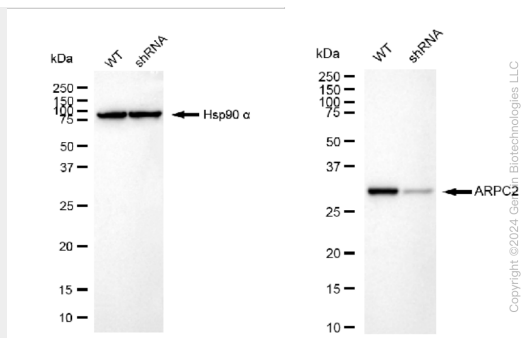
Provided below are standard protocols that you may find useful for product applications.

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

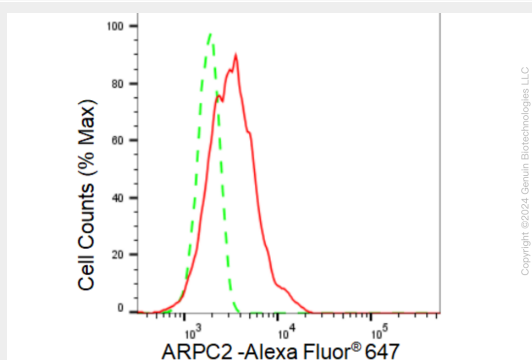
#### KD-Validated Anti-ARPC2 Rabbit Monoclonal Antibody - Images



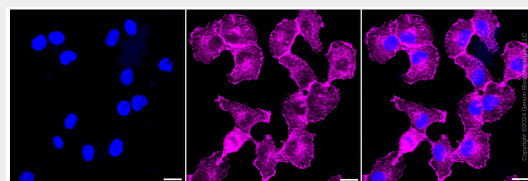
Western blotting analysis using anti-ARPC2 antibody (Cat#AGI1306). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ARPC2 antibody (Cat#AGI1306, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-ARPC2 antibody (Cat#AGI1306). ARPC2 expression in wild type (WT) and ARPC2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ARPC2 antibody (Cat#AGI1306, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ARPC2 expression in HT-1080 cells using ARPC2 antibody (Cat#AGI1306, 1:2,000). Green, isotype control; red, ARPC2.



Immunocytochemical staining of HT-1080 cells with ARPC2 antibody (Cat#AGI1306, 1:1,000). Nuclei were stained blue with DAPI; ARPC2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.