

Product Name: KD-Validated ARPC2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01432**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 34.3kDa

Antigen Information

Gene Name	ARPC2 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,
Alternative Names	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
Gene ID	10109.0
SwissProt ID	O15144
Immunogen	A synthesized peptide derived from human ARPC2

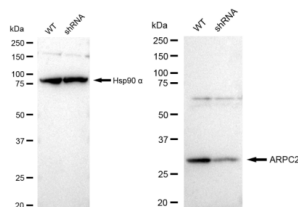
Background

This gene encodes one of seven subunits of the human Arp2/3 protein complex. The Arp2/3 protein complex has been implicated in the control of actin polymerization in cells and has been conserved through evolution. The exact role of the protein encoded by this gene, the p34 subunit, has yet to be determined. Two alternatively spliced variants have been characterized to date. Additional alternatively spliced variants have been described but their full length nature has not been determined. [provided by RefSeq, Jul 2008]

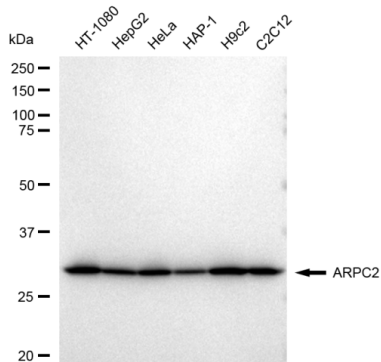
Research Area

Signal Transduction

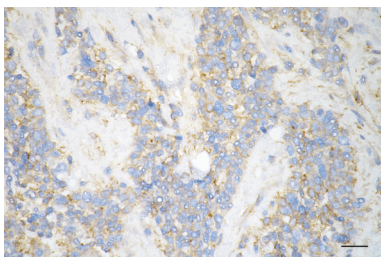
Image Data



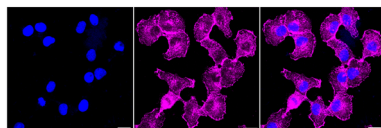
Western blotting analysis using ARPC2 antibody (KVA01432). ARPC2 expression in wild type (WT) and ARPC2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ARPC2 antibody (KVA01432, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



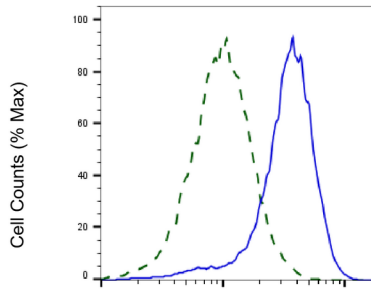
Western blotting analysis using ARPC2 antibody (KVA01432). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ARPC2 antibody (KVA01432, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



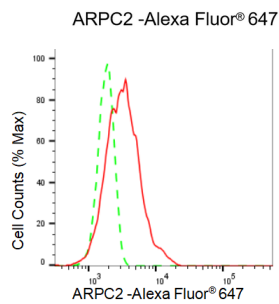
Immunohistochemistry was performed on paraffin-embedded human breast carcinoma using ARPC2 antibody (KVA01432, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HT-1080 cells with ARPC2 antibody (KVA01432, 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.



Validation of ARPC2 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with ARPC2 antibody (KVA01432, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of ARPC2 expression in HT-1080 cells using ARPC2 antibody (KVA01432, 1:2,000). Green, isotype control; red, ARPC2 .