Datasheet for ABIN2855249

anti-ARPC2 antibody

1 Validation

5 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	ARPC2
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ARPC2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human ARPC2. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to ARPC2 (actin related protein 2/3 complex, subunit 2, 34 kDa) ARPC2 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	ARPC2
Alternative Name:	actin related protein 2/3 complex subunit 2 (ARPC2 Products)

Target Details

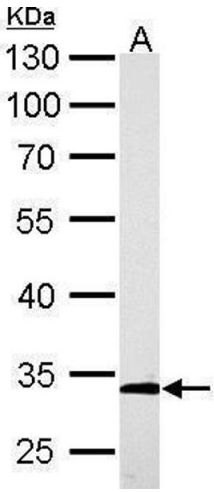
Background:	This gene encodes one of seven subunits of the human Arp2/3 protein complex. The Arp2/3 protein complex has been implicated in the control of actin polymerization in cells and has been conserved through evolution. The exact role of the protein encoded by this gene, the p34 subunit, has yet 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. Cellular Localization: Cytoplasm , cytoskeleton , Cell projection
Molecular Weight:	34 kDa
Gene ID:	10109
UniProt:	O15144
Pathways:	RTK Signaling, Regulation of Actin Filament Polymerization

Application Details

Application Notes:	WB: 1:500-1:5000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: rat kidney , mouse kidney
Restrictions:	For Research Use only

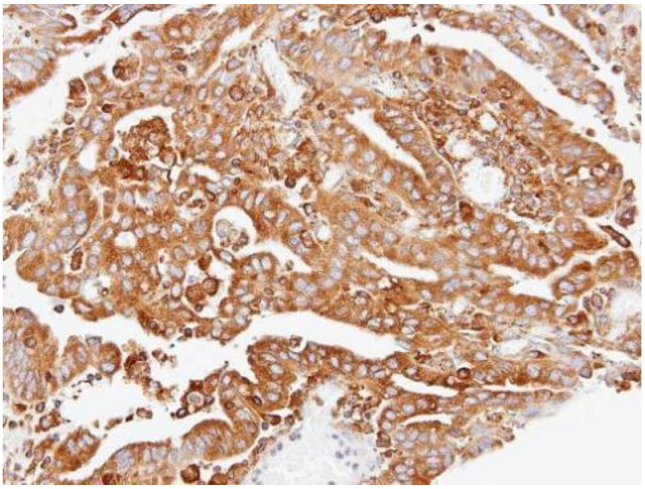
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	1XPBS (pH 7), 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



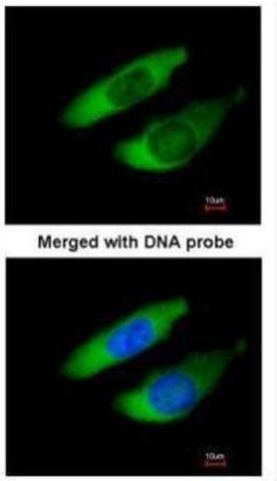
Western Blotting

Image 1. WB Image ARPC2 antibody detects ARPC2 protein by Western blot analysis. A. 50 µg rat kidney lysate/extract 10 % SDS-PAGE ARPC2 antibody , dilution: 1:5000



Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded OVCA xenograft, using ARPC2, antibody at 1:100 dilution.



Immunofluorescence

Image 3. ICC/IF Image Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using ARPC2, antibody at 1:200 dilution.

Please check the product details page for more images. Overall 5 images are available for ABIN2855249.

Validation report #104342 for Multiplex Immunohistochemistry (mIHC)

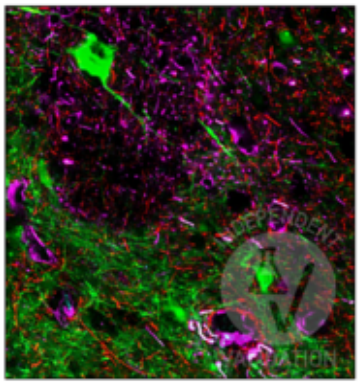
Successfully validated (Multiplex Immunohistochemistry (mIHC))

by Akoya Biosciences

Report Number: 104342

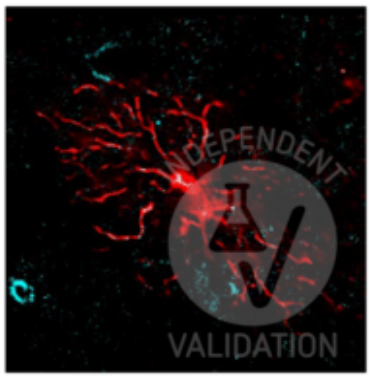
Date: Apr 20 2021

Target:	ARPC2
Lot Number:	39911
Method validated:	Multiplex Immunohistochemistry (mIHC)
Positive Control:	FFPE normal human cortex
Negative Control:	Unlabeled control (FFPE normal human cortex)
Notes:	Passed. The anti-ARPC2 antibody ABIN2855249 produced staining in neuronal processes throughout the human cortex.
Primary Antibody:	ABIN2855249
Protocol:	• Protocol details are described in the Akoya Biosciences CODEX® User Manual (see https://www.akoyabio.com/wp-content/uploads/2021/01/CODEX-User-Manual.pdf). • Tissue preparation as outlined in the Akoya Biosciences CODEX® User Manual fresh-frozen tissue protocol. • Conjugation of the anti-ARPC2 antibody ABIN2855249 to an oligo barcode used to bind oligo-conjugated fluorophore AF488.
Experimental Notes:	• No signal was detected in unlabeled specimens. • Specific staining of ARPC2 was observed with human FFPE cortical tissue sections with tris-EDTA antigen retrieval. • Anti-ARPC antibody ABIN2855249 was weakly compatible with staining of fresh frozen mouse tissue • Optimal staining and signal to noise ratios were obtained if tissue was pre-treated for autofluorescence removal (see https://www.akoyabio.com/wp-content/uploads/2020/07/Customer-Demonstrated-Protocol-Autofluorescence-Quenching-Mar2020.pdf).



Validation image no. 1 for anti-Actin Related Protein 2/3 Complex, Subunit 2, 34kDa (ARPC2) antibody (ABIN2855249)

FFPE normal human cortex tissue section labeled with anti-ARPC2 antibody ABIN2855249 (cyan; conjugated to fluorophore AF488) after EDTA antigen retrieval. MAP2, neurofilament, and GFAP were labeled with anti-MAP2 antibody ABIN125739 (green; conjugated to fluorophore ATTO 550), anti-neurofilament antibody (red; conjugated to fluorophore AF488), and anti-GFAP antibody (purple; conjugated to fluorophore AF647) respectively.



Validation image no. 2 for anti-Actin Related Protein 2/3 Complex, Subunit 2, 34kDa (ARPC2) antibody (ABIN2855249)

FFPE normal human cortex tissue section labeled with anti-ARPC2 antibody ABIN2855249 (cyan; conjugated to fluorophore AF488) after EDTA antigen retrieval. GFAP was labeled with anti-ARPC2 antibody (red; conjugated to fluorophore AF647).