

Datasheet for ABIN6719390
anti-ARPC1B antibody (AA 293-372)



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Overview

Quantity:	100 µg
Target:	ARPC1B
Binding Specificity:	AA 293-372
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ARPC1B antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-ARP2/3 subunit 1B/ARPC1B Antibody Picoband®
Immunogen:	E.coli-derived human ARP2/3 subunit 1B/ARPC1B recombinant protein (Position: Q293-K372).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ARP2/3 subunit 1B/ARPC1B Antibody Picoband® (ABIN6719390). Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	ARPC1B
Alternative Name:	ARPC1B (ARPC1B Products)
Background:	Synonyms: Actin-related protein 2/3 complex subunit 1B, Arp2/3 complex 41 kDa subunit, p41-ARC, ARPC1B, ARC41 Tissue Specificity: Isoform 1 is expressed in the jejunum, ileum, cecum and ascending colon intestine. Isoform 2 is expressed in the gallbladder, duodenum, jejunum, ileum, cecum, ascending, transverse and descending colon, sigmoid colon and rectum. Isoform 2 is expressed in colorectal adenocarcinomas and their adjacent normal mucosa. Background: Actin-related protein 2/3 complex subunit 1B is a protein that in humans is encoded by the ARPC1B gene. It is mapped to 7q22.1. This gene encodes one of seven subunits of the human Arp2/3 protein complex. This subunit is a member of the SOP2 family of proteins and is most similar to the protein encoded by gene ARPC1A. The similarity between these two proteins suggests that they both may function as p41 subunit of the human Arp2/3 complex that has been implicated in the control of actin polymerization in cells. It is possible that the p41 subunit is involved in assembling and maintaining the structure of the Arp2/3 complex. Multiple versions of the p41 subunit may adapt the functions of the complex to different cell types or developmental stages. This protein also has a role in centrosomal homeostasis by being an activator and substrate of the Aurora A kinase.
Molecular Weight:	37 kDa
Gene ID:	10095
UniProt:	O15143
Pathways:	RTK Signaling, Regulation of Actin Filament Polymerization

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Kahr, W. H. A., Pluthero, F. G., Elkadri, A., Warner, N., Drobac, M., Chen, C. H., Lo, R. W., Li, L., Li, R., Li, Q., Thoeni, C., Pan, J., and 10 others. Loss of the Arp2/3 complex component ARPC1B causes platelet abnormalities and predisposes to inflammatory disease. Nature Commun. 8: 14816, 2017. Note: Electronic Article. 2. Laurila, E., Savinainen, K., Kuuselo, R., Karhu, R., Kallioniemi, A. Characterization of the 7q21-q22 amplicon identifies ARPC1A, a subunit of the
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Application Details

Arp2/3 complex, as a regulator of cell migration and invasion in pancreatic cancer. Genes Chromosomes Cancer 48: 330-339, 2009.

Comment: Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na₂HPO₄.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.