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Datasheet for ABIN968781

anti-ARPC3 antibody (AA 10-118)

2 Images

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Overview

| | |
|----------------------|--|
| Quantity: | 50 µg |
| Target: | ARPC3 |
| Binding Specificity: | AA 10-118 |
| Reactivity: | Human, Mouse, Rat, Dog, Chicken |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This ARPC3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

Product Details

| | |
|-------------------|---|
| Immunogen: | Human p21-Arc aa. 10-118 |
| Clone: | 26-p21 |
| Isotype: | IgG1 |
| Cross-Reactivity: | Mouse (Murine), Rat (Rattus), Chicken, Dog (Canine) |
| Characteristics: | <ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States. |
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity |

Product Details

chromatography.

Target Details

Target: ARPC3

Alternative Name: p21-Arc ([ARPC3 Products](#))

Background: Cellular morphology, adhesion, and motility occur through the reorganization of the actin cytoskeleton. This reorganization of actin filaments occurs through the interactions between actin and actin binding proteins. Actin-binding proteins regulate the polymerization and depolymerization of actin, connect actin-based structures to membranes and to other cytoskeletal elements, power the movement of actin filaments, and cross-link actin filaments into bundles. Actin related proteins (Arp) 2/3 complex is an actin polymerization inducing complex that includes Arp2, Arp3, p41-Arc, p34-Arc, p21-Arc, p20 Arc, and p16-Arc. The Arp2 and Arp3 subunits may nucleate actin polymerization, while the p41-Arc subunit is a WD repeat-containing protein that may regulate both the activity and localization of the Arp2/3 complex. Arp3, p34-Arc, and p21-Arc are localized to the lamellipodia of stationary and locomoting fibroblasts. Both WASP and Abp1p are acidic sequence-containing proteins that activate the Arp2/3 complex. However, WASP binds actin monomers, while the endocytosis-related Abp1p protein binds actin filaments. Thus, Arp2/3 complex may regulate actin polymerization in specific cell locations through interaction with actin binding Arp2/3 activators.

Molecular Weight: 21 kDa

Pathways: [RTK Signaling, Regulation of Actin Filament Polymerization](#)

Application Details

Comment: Related Products: ABIN968535, ABIN967389

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 250 µg/mL

Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.

Preservative: Sodium azide

Handling

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

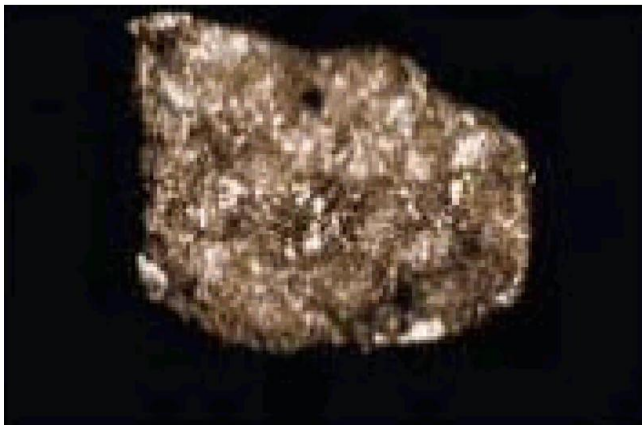
Storage Comment: Store undiluted at -20° C.

Publications

Product cited in: Zhao, Yang, Qian, Zhu: "Interactions among subunits of human Arp2/3 complex: p20-Arc as the hub." in: **Biochemical and biophysical research communications**, Vol. 280, Issue 2, pp. 513-7, (2001) ([PubMed](#)).

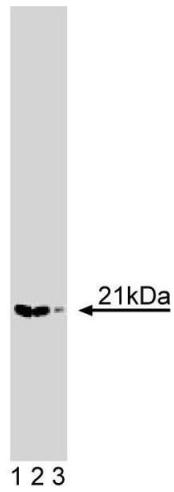
Welch, DePace, Verma, Iwamatsu, Mitchison: "The human Arp2/3 complex is composed of evolutionarily conserved subunits and is localized to cellular regions of dynamic actin filament assembly." in: **The Journal of cell biology**, Vol. 138, Issue 2, pp. 375-84, (1997) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma, ATCC CCL-2.2).



Western Blotting

Image 2. Western blot analysis of p21-Arc on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2). Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti- p21-Arc antibody.