

Anti-Arp3/ACTR3 Antibody (1Q436)

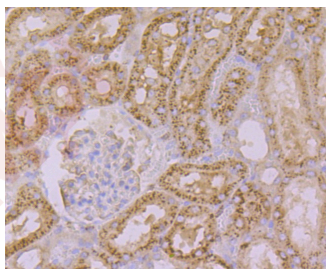
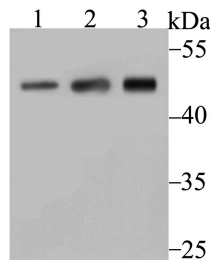
Product Details

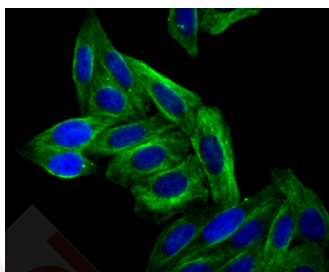
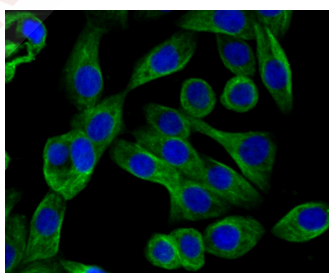
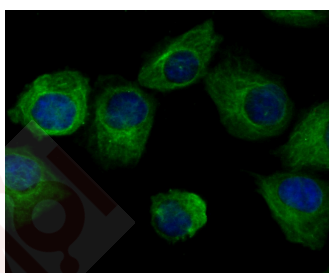
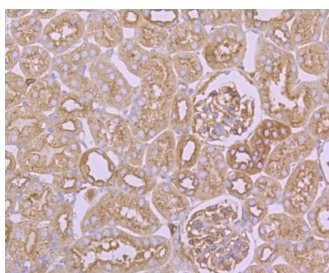
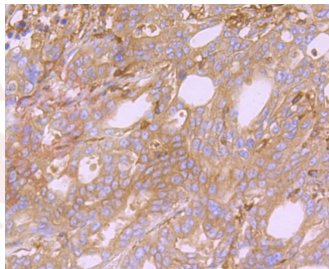
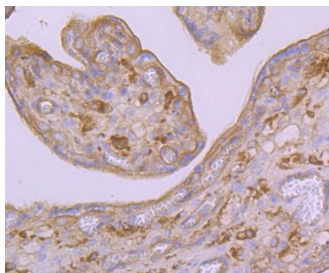
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 47 kDa.
Clone:	1Q436
Purification:	ProA affinity purified

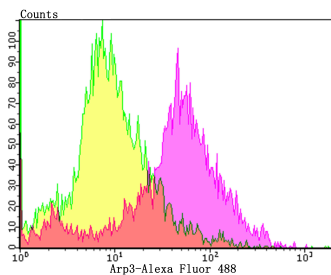
Applications

Verified Activity:

1. Western blot analysis of Arp3 on different lysates using anti-Arp3 antibody at 1/500 dilution. Positive control:Lane 1: A431, Lane 2: Mouse placenta, Lane 3: Mouse thymus.
2. Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-Arp3 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human placenta tissue using anti-Arp3 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti-Arp3 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-Arp3 antibody. Counter stained with hematoxylin.
6. ICC staining Arp3 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Arp3 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Arp3 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
9. Flow cytometric analysis of HL-60 cells with Arp3 antibody at 1/100 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.







Application: FCM,ICC,IF,IHC,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; ICC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: C-terminal human Arp3

Antigen Species: human

Uniprot ID: P61158

Synonyms: ARP3;ARP3 actin-related protein 3 homolog (yeast)

Research Background

Actin polymerization is required for a variety of cell functions, including chemotaxis, cell migration, cell adhesion, and platelet activation. Cells trigger actin polymerization through either the de novo nucleation of filaments from monomeric actin, the severing of existing filaments to create uncapped barbed ends, or the uncapping existing barbed ends. The nucleation of actin is a rate-limiting and unfavorable reaction in actin polymerization and therefore requires the involvement of the Arp2/3 complex, which helps create new filaments and promotes the end-to-side cross-linking of actin filaments into the branching meshwork. The Arp2/3 complex consists of the actin-related proteins Arp2 and Arp3, and various other accessory proteins. The Arp2/3 complex promotes actin nucleation by binding the pointed end of actin filaments, or by associating with the side of an existing filament, and nucleates growth in the barbed direction. In addition, the Arp2/3 complex also mediates actin cytoskeletal outgrowths that are regulated by the Rho family of small GTPases. In response to GTP-binding Cdc42, the Arp2/3 complex binds the Cdc42 substrates, namely the WASP proteins, and initiates the formation of lamellipodia and filopodia.

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