



[Go to Product page](#)

Datasheet for ABIN968876

anti-TRIP10 antibody (AA 411-501)

2 Images

3 Publications

Overview

Quantity:	50 µg
Target:	TRIP10
Binding Specificity:	AA 411-501
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRIP10 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human CIP4 aa. 411-501
Clone:	21-CIP4
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Mouse (Murine), Rat (Rattus)
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: TRIP10

Alternative Name: Cip4 ([TRIP10 Products](#))

Background: Rho family members are small GTP binding proteins that serve as molecular switches for a number of biological processes. They cycle between active GTP-bound and inactive GDP-bound states. CDC42 is a Rho family protein that was identified in membranes of human platelets and placenta. It is the homologue of CDC42Sc, which regulates initiation of bud-site assembly in *Saccharomyces cerevisiae*. Similarly, CDC42 regulates the function of the mammalian actin cytoskeleton, allowing for efficient cytokinesis and cell morphogenesis. CDC42-interacting protein 4 (CIP4) was identified in a yeast-two hybrid screen for proteins that bind CDC42. Another variant of CIP4, CIP4/2, was identified that contains an extra 56 amino acids and has 71% identity with CIP4 (or CIP4/1). CIP4 contains a C-terminal SH3 domain and an N-terminal domain that is homologous to non-catalytic motifs in the tyrosine kinase Fer. The mRNA expression of CIP4 is highest in skeletal muscle, heart, and placenta. Overexpression of CIP4 in Swiss 3T3 cells reduces the amount of stress fibers and leads to clustering of CIP4 to foci at the dorsal side of the cells. In addition, CIP4 binds the Rho-GTPase activating protein RICH and the cytoskeletal protein WASP. Coexpression of CIP4 and WASP in Cos-7 cells leads to WASP association with microtubules. Thus, CIP4 is involved in various protein-protein interactions associated with cytoskeletal dynamics. This antibody is routinely tested by western blot analysis.

Molecular Weight: 80 kDa

Application Details

Comment: Related Products: [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.

Handling

Preservative:	Sodium azide
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

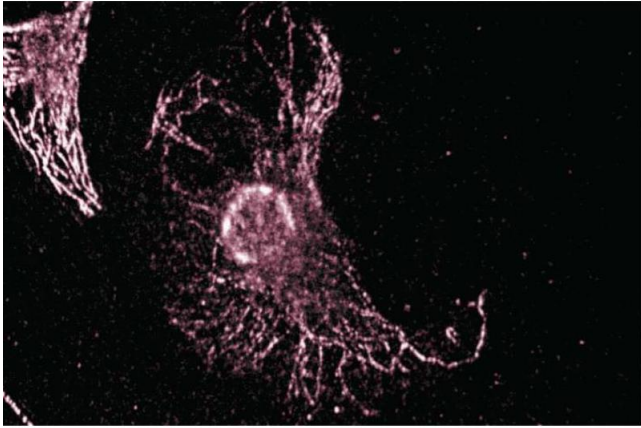
- Product cited in:
- Richnau, Aspenström: "Rich, a rho GTPase-activating protein domain-containing protein involved in signaling by Cdc42 and Rac1." in: **The Journal of biological chemistry**, Vol. 276, Issue 37, pp. 35060-70, (2001) ([PubMed](#)).
- Tian, Nelson, Stewart: "Cdc42-interacting protein 4 mediates binding of the Wiskott-Aldrich syndrome protein to microtubules." in: **The Journal of biological chemistry**, Vol. 275, Issue 11, pp. 7854-61, (2000) ([PubMed](#)).
- Aspenström: "A Cdc42 target protein with homology to the non-kinase domain of FER has a potential role in regulating the actin cytoskeleton." in: **Current biology : CB**, Vol. 7, Issue 7, pp. 479-87, (1997) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of CIP4 on JAR cell lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of anti-CIP4 antibody.



Immunofluorescence

Image 2. Immunofluorescent staining of NRK cells.