Datasheet for ABIN967709

anti-Cortactin antibody

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Overview

Quantity:	50 µg
Target:	Cortactin (CTTN)
Reactivity:	Human, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Cortactin antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Chicken Cortactin
Clone:	30-Cortactin
Isotype:	IgG1
Cross-Reactivity:	Human, Dog (Canine)
Characteristics:	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:	Cortactin (CTTN)
Alternative Name:	Cortactin (CTTN Products)
Background:	Cortactin is a protein which is represented by two structurally related isoforms of 80 kDa and 85 kDa. Sequence analysis of this protein reveals the presence of a carboxy-terminal SH3 domain, as well as six internal tandem repeats of a 37 amino acid sequence. It is able to bind to F-actin via this N-terminal repeat region, and colocalizes with actin in the cell. Cortactin was originally described as a protein that is tyrosine-phosphorylated in cells transformed by the src oncogene, in which it localizes to rosettes or podosomes. It has since been shown that other stimuli, such as bacterial invasion, treatment with growth factors, and integrin-mediated cell adhesion, are also capable of inducing phosphorylation of cortactin. Some additional evidence indicates that cortactin may actually be a substrate of syk, with src acting as an upstream signaling molecule. This antibody is routinely tested by western blot analysis.
Molecular Weight:	85/80 kDa
Pathways:	MAPK Signaling

Application Details

Comment:	Related Products: ABIN968533, 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
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:

Lavoie, Champagne, Gingras, Robert: "Adenovirus E4 open reading frame 4-induced apoptosis involves dysregulation of Src family kinases." in: **The Journal of cell biology**, Vol. 150, Issue 5, pp. 1037-56, (2000) (PubMed).

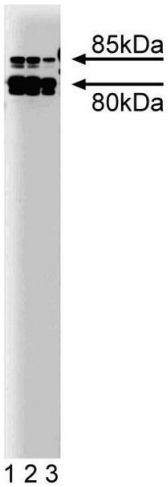
Nakahara, Mueller, Nomizu, Yamada, Yeh, Chen: "Activation of beta1 integrin signaling stimulates tyrosine phosphorylation of p190RhoGAP and membrane-protrusive activities at invadopodia." in: **The Journal of biological chemistry**, Vol. 273, Issue 1, pp. 9-12, (1998) (PubMed).

Dehio, Prévost, Sansonetti: "Invasion of epithelial cells by Shigella flexneri induces tyrosine phosphorylation of cortactin by a pp60c-src-mediated signalling pathway." in: **The EMBO journal**, Vol. 14, Issue 11, pp. 2471-82, (1995) (PubMed).

Wu, Parsons: "Cortactin, an 80/85-kilodalton pp60src substrate, is a filamentous actin-binding protein enriched in the cell cortex." in: **The Journal of cell biology**, Vol. 120, Issue 6, pp. 1417-26 , (1993) (PubMed).

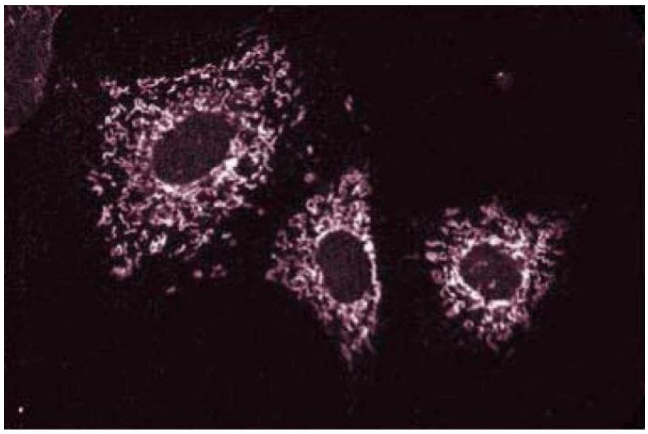
Wu, Reynolds, Kanner, Vines, Parsons: "Identification and characterization of a novel cytoskeleton-associated pp60src substrate." in: **Molecular and cellular biology**, Vol. 11, Issue 10, pp. 5113-24, (1991) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Cortactin on a A431 lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- Cortactin antibody.



Immunofluorescence

Image 2. Immunofluoresence staining of NIH-3T3 cells.