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# Datasheet for ABIN967743 anti-NCK1 antibody (AA 279-377)

2 Images

5 Publications



#### Overview

Quantity:	50 µg
Target:	NCK1
Binding Specificity:	AA 279-377
Reactivity:	Human, Mouse, Rat, Cow, Dog, Frog, Chicken
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NCK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

# Product Details

Immunogen:	Human NCK aa. 279-377
Clone:	108-NCK
Isotype:	lgG2b
Cross-Reactivity:	Cow (Bovine), Chicken, Dog (Canine), Frog, Mouse (Murine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
	4. 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.

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Product Details	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

#### Target Details

Target:	NCK1
Alternative Name:	NCK (NCK1 Products)
Background:	NCK is a 47 kDa protein that belongs to a class of signaling molecules called adaptors. These proteins exert their effects by coupling activated receptors to downstream effectors. NCK is comprised almost entirely of one SH2 and three SH3 domains and it possesses no intrinsic catalytic activity. Investigations of its interactions with cellular proteins have found constitutive association of NCK with various Ser/THr kinases, such as p21-associated kinase (PAK) and casein kinase 1. Other proteins that directly interact with NCK are: Sos, Cbl, Wiskott-Aldrich syndrome protein (WASP), IRS1, and multiple tyrosine kinase receptors. The presence of NCK is necessary for the mitogenic response elicited by PDGF in some cells. In addition, the Drosophila homologue of NCK is involved in regulating cytoskeletal organization. This antibody is routinely tested by western blot analysis.
Molecular Weight:	47 kDa
Pathways:	TCR Signaling, Regulation of Actin Filament Polymerization, Signaling Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals

# Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

### Handling

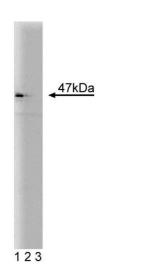
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling	
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Dalva, Takasu, Lin, Shamah, Hu, Gale, Greenberg: "EphB receptors interact with NMDA receptors and regulate excitatory synapse formation." in: <b>Cell</b> , Vol. 103, Issue 6, pp. 945-56, (2001) ( PubMed).
	Miyoshi-Akiyama, Aleman, Smith, Adler, Mayer: "Regulation of Cbl phosphorylation by the Abl tyrosine kinase and the Nck SH2/SH3 adaptor." in: <b>Oncogene</b> , Vol. 20, Issue 30, pp. 4058-69, (2001) (PubMed).
	Schmitz, Thömmes, Beier, Wagner, Sachinidis, Düsing, Vetter: "Angiotensin II-induced stimulation of p21-activated kinase and c-Jun NH2-terminal kinase is mediated by Rac1 and Nck." in: <b>The Journal of biological chemistry</b> , Vol. 276, Issue 25, pp. 22003-10, (2001) (PubMed ).

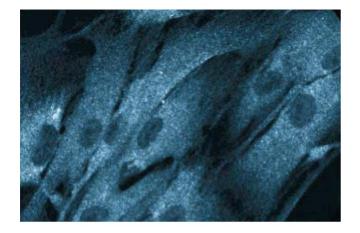
McManus, Boerner, Danielsen, Wang, Matsumura, Maihle: "An oncogenic epidermal growth factor receptor signals via a p21-activated kinase-caldesmon-myosin phosphotyrosine complex." in: **The Journal of biological chemistry**, Vol. 275, Issue 45, pp. 35328-34, (2000) ( PubMed).

Roche, McGlade, Jones, Gish, Pawson, Courtneidge et al.: "Requirement of phospholipase C gamma, the tyrosine phosphatase Syp and the adaptor proteins Shc and Nck for PDGF-induced DNA synthesis: evidence for the existence of Ras-dependent and Ras-independent ..." in: **The EMBO journal**, Vol. 15, Issue 18, pp. 4940-8, (1996) (PubMed).



#### Western Blotting

**Image 1.** Western blot analysis of NCK on HeLa lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1: 40000 dilution of anti-NCK antibody.



#### Immunofluorescence

**Image 2.** Immunofluorescent staining of HISM cells with anti-NCK antibody.

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