

## NCK1 Conjugated Antibody

Catalog No: #C49743



Package Size: #C49743-AF350 100ul #C49743-AF405 100ul #C49743-AF488 100ul  
 #C49743-AF555 100ul #C49743-AF594 100ul #C49743-AF647 100ul  
 #C49743-AF680 100ul #C49743-AF750 100ul #C49743-Biotin 100ul

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## Description

Product Name	NCK1 Conjugated Antibody
Host Species	Rabbit
Clonality	Monoclonal
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	Cytoplasmic protein NCK1 antibody Melanoma Nck protein antibody MGC12668 antibody NCK 1 antibody NCK adaptor protein 1 antibody NCK alpha antibody NCK antibody NCK tyrosine kinase antibody Nck-1 antibody NCK1 antibody NCK1_HUMAN antibody NCKalpha antibody Non catalytic region of tyrosine kinase antibody SH2/SH3 adaptor protein NCK alpha antibody SH2/SH3 adaptor protein NCK-alpha antibody
Accession No.	Swiss-Prot#:P16333
Uniprot	P16333
GeneID	4690;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	43/35 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

## Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

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## Background

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The NCK family of SH2/SH3 adaptor proteins consists of two members, NCK1 (NCK $\alpha$ ) and NCK2 (NCK $\beta$ ), which couple tyrosine kinase signaling, including the EGF and PDGF receptor-pathways, to downstream signaling proteins. Specifically, overexpression of Nck1 in NIH/3T3 cells decreases DNA synthesis stimulated by EGF. Furthermore, the SH2 domain of NCK2 inhibits EGF- and PDGF-induced DNA synthesis. The SH3 domain of NCK binds a proline-rich domain on PAK, a known actin cytoskeleton regulator. The NCK protein thus mediates the interaction between PAK and RAC. The NCK2 protein binds human PDGFR-b (Tyr 1009); overexpression of Nck2 inhibits PDGF-induced membrane ruffling and lamellipod formation. Various growth factor receptors, cell surface antigens and adhesion molecules phosphorylate mammalian NCK1 and NCK2. The human NCK1 and NCK2 genes map to chromosomes 3q22.3 and 2q12.2, respectively.

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Note: This product is for in vitro research use only