NCK1 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	NCK1, Blocking Peptide
Full Product Name	NCK1 Antibody (N-term) Blocking Peptide
Product Gene Name	NCK1 blocking peptide
Product Synonym Gene Name	NCK
Product Synonym Names	Cytoplasmic protein NCK1; NCK adaptor protein 1; Nck-1; SH2/SH3 adaptor protein NCK-alpha; NCK1; NCK
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human NCK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	NCK1 peptide (MBS9227871) is used for blocking the activity of NCK1 antibody (MBS9208377)
Molecular Weight	35,511 Da
OMIM	600508
Cellular Location	Cytoplasm. Endoplasmic reticulum. Nucleus. Note: Mostly cytoplasmic, but shuttles between the cytoplasm and the nucleus. Import into the nucleus requires the interaction with SOCS7. Predominantly nuclear following genotoxic stresses, such as UV irradiation, hydroxyurea or mitomycin C treatments
Related Product Information for NCK1 blocking peptide	Adapter protein which associates with tyrosine- phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in the DNA damage response, not in the detection of the damage by ATM/ATR, but for efficient activation of downstream effectors, such as that of CHEK2. Plays a role in ELK1-dependent transcriptional activation in response to activated Ras signaling. Modulates the activation of EIF2AK2/PKR by dsRNA. May play a role in cell adhesion and migration through interaction with ephrin receptors.
Other Notes	Small volumes of NCK1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NCK1 purchase	MBS9227871 is a blocking peptide targeting NCK1. Also known as NCK1 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NCK1. It may not necessarily be applicable to this product.

NCBI GI #	127962
NCBI GeneID	4690
NCBI Accession #	P16333.1
UniProt Primary Accession #	P16333
UniProt Secondary Accession #	B7Z751; D3DNE3
UniProt Related Accession #	P16333
NCBI Official Full Name	Cytoplasmic protein NCK1

NCBI Official Synonym Full Names	NCK adaptor protein 1
NCBI Official Symbol	NCK1
NCBI Official Synonym Symbols	NCK; nck-1; NCKalpha
UniProt Protein Name	Cytoplasmic protein NCK1
UniProt Synonym Protein Names	NCK adaptor protein 1; Nck-1; SH2/SH3 adaptor protein NCK-alpha
Protein Family	Cytoplasmic protein
UniProt Gene Name	NCK1
UniProt Synonym Gene Names	NCK; Nck-1
UniProt Entry Name	NCK1_HUMAN
NCBI Protein Information	cytoplasmic protein NCK1
NCBI Summary for NCK1	The protein encoded by this gene is one of the signaling and transforming proteins containing Src homology 2 and 3 (SH2 and SH3) domains. It is located in the cytoplasm and is an adaptor protein involved in transducing signals from receptor tyrosine kinases to downstream signal recipients such as RAS. Alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Jun 2010]
UniProt Comments for NCK1	NCK1: adapter protein containing Src homology 2 and 3 (SH2 and SH3) domains. Transduces signals from tyrosine-phosphorylated growth factor receptors to their cellular substrates. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 3q21 Cellular Component: cytoplasm; cytosol; endoplasmic reticulum; plasma membrane; protein phosphatase type 1 complex; ribosome; trans-Golgi network Molecular Function: ARF guanyl-nucleotide exchange factor activity; protein binding; protein binding, bridging; protein kinase inhibitor activity; receptor binding; receptor tyrosine kinase binding Biological Process: negative regulation of peptidyl-serine phosphorylation; positive regulation of actin filament polymerization; positive regulation of T cell proliferation; positive regulation of transcription from RNA polymerase II promoter; T cell activation; T cell receptor signaling pathway; vascular endothelial growth factor receptor signaling pathway; vesicle-mediated transport
Research Articles on NCK1	**1.** Results demonstrate that Nck acts as an important hub integrating angiogenic cues with cytoskeletal changes that enable endothelial apical-basal polarization and lumen formation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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