

**NCK1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8825a****Specification**

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**NCK1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P16333](#)**NCK1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 4690**Other Names**

Cytoplasmic protein NCK1, NCK adaptor protein 1, Nck-1, SH2/SH3 adaptor protein NCK-alpha, NCK1, NCK

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8825a](/products/AP8825a) 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.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**NCK1 Antibody (N-term) Blocking Peptide - Protein Information****Name** NCK1**Synonyms** NCK**Function**

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.

**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

### **NCK1 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **NCK1 Antibody (N-term) Blocking Peptide - Images**

### **NCK1 Antibody (N-term) Blocking Peptide - Background**

NCK1 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.

### **NCK1 Antibody (N-term) Blocking Peptide - References**

Meisenhelder, J. et.al., Mol. Cell. Biol. 12 (12), 5843-5856 (1992)