

**NCKPL Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18156c****Specification**

---

**NCKPL Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P55160](#)**NCKPL Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 3071

**Other Names**

Nck-associated protein 1-like, Hematopoietic protein 1, Membrane-associated protein HEM-1, NCKAP1L, HEM1

**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.

**NCKPL Antibody (Center) Blocking Peptide - Protein Information**Name NCKAP1L ([HGNC:4862](#))**Function**

Essential hematopoietic-specific regulator of the actin cytoskeleton (Probable). Controls lymphocyte development, activation, proliferation and homeostasis, erythrocyte membrane stability, as well as phagocytosis and migration by neutrophils and macrophages (PubMed:[16417406](http://www.uniprot.org/citations/16417406), PubMed:[17696648](http://www.uniprot.org/citations/17696648)). Component of the WAVE2 complex which signals downstream of RAC to stimulate F-actin polymerization. Required for stabilization and/or translation of the WAVE2 complex proteins in hematopoietic cells (By similarity). Within the WAVE2 complex, enables the cortical actin network to restrain excessive degranulation and granule release by T-cells (PubMed:[32647003](http://www.uniprot.org/citations/32647003)). Required for efficient T-lymphocyte and neutrophil migration (PubMed:[32647003](http://www.uniprot.org/citations/32647003)). Exhibits complex cycles of activation and inhibition to generate waves of propagating the assembly with actin (PubMed:[16417406](http://www.uniprot.org/citations/16417406)). Also involved in mechanisms WAVE-independent to regulate myosin and actin polymerization during neutrophil chemotaxis (PubMed:[17696648](http://www.uniprot.org/citations/17696648)). In T-cells,

required for proper mechanistic target of rapamycin complex 2 (mTORC2)-dependent AKT phosphorylation, cell proliferation and cytokine secretion, including that of IL2 and TNF (PubMed:<a href="http://www.uniprot.org/citations/32647003" target="\_blank">32647003</a>).

**Cellular Location**

Cell membrane; Single-pass membrane protein; Cytoplasmic side. Cytoplasm. Note=Localizes to the leading edge of polarized neutrophils

**Tissue Location**

Expressed only in cells of hematopoietic origin (PubMed:7643388, PubMed:1932118). Expressed in neutrophils (at protein level) (PubMed:16417406). Expressed in T-cells (at protein level) (PubMed:32647003).

**NCKPL Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**NCKPL Antibody (Center) Blocking Peptide - Images****NCKPL Antibody (Center) Blocking Peptide - Background**

This gene encodes a member of the HEM family of tissue-specific transmembrane proteins which are highly conserved from invertebrates through mammals. This gene is only expressed in hematopoietic cells. The encoded protein is a part of the Scar/WAVE complex which plays an important role in regulating cell shape in both metazoans and plants. Alternatively spliced transcript variants encoding different isoforms have been found.

**NCKPL Antibody (Center) Blocking Peptide - References**

Joshi, A.D., et al. Clin. Cancer Res. 13 (18 PT 1), 5295-5304 (2007) :Weiner, O.D., et al. PLoS Biol. 5 (9), E221 (2007) :Weiner, O.D., et al. PLoS Biol. 4 (2), E38 (2006) :Baumgartner, S., et al. J. Mol. Biol. 251(1):41-49(1995) Hromas, R., et al. Biochim. Biophys. Acta 1090(2):241-244(1991)