10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NCKPL Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18156c

Specification

NCKPL Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	P55160
Other Accession	NP_005328.2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**128153**
Antigen Region	**641-669**

NCKPL Antibody (Center) - Additional Information

Gene ID 3071

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

Target/Specificity
This NCKPL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 641-669 amino acids from the Central region of human NCKPL.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NCKPL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

NCKPL Antibody (Center) - 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, PubMed: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). Required for efficient T-lymphocyte and neutrophil migration (PubMed:32647003). Exhibits complex cycles of activation and inhibition to generate waves of propagating the assembly with actin (PubMed:16417406). Also involved in mechanisms WAVE-independent to regulate myosin and actin polymerization during neutrophil chemotaxis (PubMed: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:32647003).

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

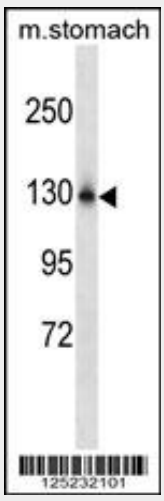
Tissue Location
Expressed only in cells of hematopoietic origin (PubMed:1932118, PubMed:7643388). Expressed in neutrophils (at protein level) (PubMed:16417406). Expressed in T-cells (at protein level) (PubMed:32647003).

NCKPL Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NCKPL Antibody (Center) - Images



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NCKPL Antibody (Center) (Cat. #AP18156c) western blot analysis in mouse stomach tissue lysates (35ug/lane).This demonstrates the NCKPL antibody detected the NCKPL protein (arrow).

NCKPL Antibody (Center) - 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) - 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)