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

Anti-NCKAP1L Antibody

Goat Anti Human Polyclonal Antibody
Catalog # ALS17632

Product Information

Application	IHC-P
Primary Accession	P55160
Predicted	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Bovine, Horse, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	128153
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	3071
Alias Symbol	NCKAP1L
Other Names	NCKAP1L, HEM1, Hematopoietic protein 1, NCK-associated protein 1-like
Target/Specificity	Human NCKAP1L.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-NCKAP1L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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).