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NCK2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14107a

Product Information

Application	WB, IHC-P, E
Primary Accession	O43639
Other Accession	NP_001004720.1, NP_003572.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33920
Calculated MW	42915
Antigen Region	63-92

Additional Information

Gene ID	8440
Other Names	Cytoplasmic protein NCK2, Growth factor receptor-bound protein 4, NCK adaptor protein 2, Nck-2, SH2/SH3 adaptor protein NCK-beta, NCK2, GRB4
Target/Specificity	This NCK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 63-92 amino acids from the N-terminal region of human NCK2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	NCK2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NCK2
Synonyms	GRB4
Function	Adapter protein which associates with tyrosine-phosphorylated growth

	factor receptors or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in ELK1-dependent transcriptional activation in response to activated Ras signaling.
Cellular Location	Cytoplasm. Endoplasmic reticulum
Tissue Location	Ubiquitous.

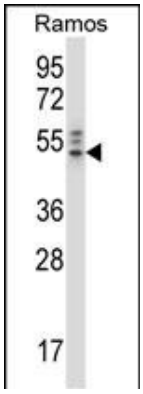
Background

This gene encodes a member of the NCK family of adaptor proteins. The protein contains three SH3 domains and one SH2 domain. The protein has no known catalytic function but has been shown to bind and recruit various proteins involved in the regulation of receptor protein tyrosine kinases. It is through these regulatory activities that this protein is believed to be involved in cytoskeletal reorganization. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

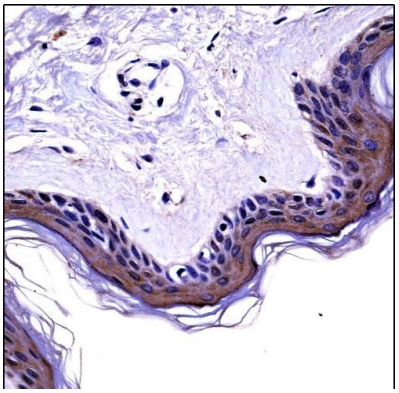
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Guan, S., et al. J. Invest. Dermatol. 129(8):1909-1920(2009)
Liu, J., et al. PLoS ONE 4 (11), E7805 (2009) :
Akiyama, M., et al. Br J Ophthalmol 92(9):1293-1296(2008)
Park, S., et al. J. Biomol. NMR 34(3):203-208(2006)

Images



NCK2 Antibody (N-term) (Cat. #AP14107a) western blot analysis in Ramos cell line lysates (35ug/lane).This demonstrates the NCK2 antibody detected the NCK2 protein (arrow).



NCK2 Antibody (N-term) (AP14107a)immunohistochemistry analysis in formalin fixed and paraffin embedded human skin tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NCK2 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.