Datasheet for ABIN392650

anti-NEK2 antibody (AA 396-426)

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Overview

Quantity:	400 µL
Target:	NEK2
Binding Specificity:	AA 396-426
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEK2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This NEK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 396-426 amino acids from the Central region of human NEK2.
Clone:	RB2959
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	NEK2
Alternative Name:	NEK2 (NEK2 Products)

Target Details

Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway.
Molecular Weight:	51763
Gene ID:	4751
NCBI Accession:	NP_001191111, NP_001191112, NP_002488
UniProt:	P51955
Pathways:	M Phase

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small

Handling

	aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:

Zhao, Han, Liu, Cui, Chen: "MicroRNA-128 promotes apoptosis in lung cancer by directly targeting NIMA-related kinase 2." in: **Thoracic cancer**, Vol. 8, Issue 4, pp. 304-311, (2018) (PubMed).

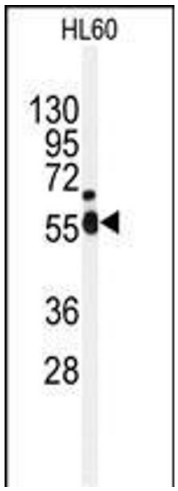
Lin, Zhou, Jiang, Liu, Wang, Zheng, Zhou, Li, Cai: "NEK2 regulates stem-like properties and predicts poor prognosis in hepatocellular carcinoma." in: **Oncology reports**, Vol. 36, Issue 2, pp. 853-62, (2017) (PubMed).

Naro, Barbagallo, Chieffi, Bourgeois, Paronetto, Sette: "The centrosomal kinase NEK2 is a novel splicing factor kinase involved in cell survival." in: **Nucleic acids research**, Vol. 42, Issue 5, pp. 3218-27, (2014) (PubMed).

van Ree, Jeganathan, Malureanu, van Deursen: "Overexpression of the E2 ubiquitin-conjugating enzyme UbcH10 causes chromosome missegregation and tumor formation." in: **The Journal of cell biology**, Vol. 188, Issue 1, pp. 83-100, (2010) (PubMed).

Barbagallo, Paronetto, Franco, Chieffi, Dolci, Fry, Geremia, Sette: "Increased expression and nuclear localization of the centrosomal kinase Nek2 in human testicular seminomas." in: **The Journal of pathology**, Vol. 217, Issue 3, pp. 431-41, (2009) (PubMed).

There are more publications referencing this product on: Product page



Western Blotting

Image 1. Western blot analysis of anti-NEK2 Antibody (Center) (ABIN392650 and ABIN2842150) in HL60 cell line lysates (35 µg/lane). NEK2(arrow) was detected using the purified Pab.