Datasheet for ABIN392654

anti-NEK9 antibody (C-Term)

2 Images

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Overview

Quantity:	400 µL
Target:	NEK9
Binding Specificity:	AA 846-877, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEK9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This NEK9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 846-877 amino acids from the C-terminal region of human NEK9.
Clone:	RB2989
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	NEK9
Alternative Name:	NEK9 (NEK9 Products)
Background:	NEK9, a member of the NIMA subfamily of Ser/Thr protein kinases, is a pleiotropic regulator of

Target Details

	mitotic progression, participating in the control of spindle dynamics and chromosome separation. It phosphorylates different histones (serine and threonine residues on H3), myelin basic protein, beta-casein (serine residues), and BICD2. NEK9 is activated during mitosis by intramolecular autophosphorylation. Activity and autophosphorylation is activated by manganese >> magnesium ions, and is sensitive to increasing concentration of detergents. This protein is not cell-cycle regulated but activity is higher in G0-arrested cells. NEK is part of a homodimer that binds to Ran GTPase, and exhibits a greater affinity for Ran-GDP over Ran-GTP. Interaction is also noted with NEK6 and NEK7 family members. This cytoplasmic protein is most abundant in heart, liver, kidney and testis, and is also expressed in smooth muscle cells and fibroblasts. Expression varies mildly across the cell cycle, with highest expression observed in G1 and stationary-phase cells.
Molecular Weight:	107168
Gene ID:	91754
NCBI Accession:	NP_149107
UniProt:	Q8TD19
Pathways:	SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

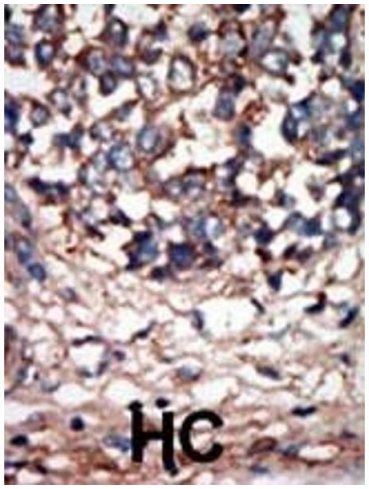
Handling

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 aliquots to prevent freeze-thaw cycles.

Handling

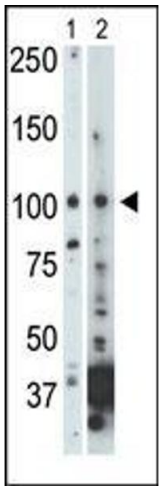
Expiry Date:	6 months

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. The anti-NEK9 Pab (ABIN392654 and ABIN2842155) is used in Western blot to detect NEK9 in 293 cell lysate (Lane 1) and mouse heart tissue lysate (Lane 2).