

Datasheet for ABIN713921
anti-NEK2 antibody (AA 1-100)[Go to Product page](#)

3 Publications

Overview

Quantity:	100 µL
Target:	NEK2
Binding Specificity:	AA 1-100
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NEK2
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Pig,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	NEK2
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Target Details

Alternative Name:	NEK2 (NEK2 Products)
Background:	<p>Synonyms: NLK1, RP67, NEK2A, HsPK21, PPP1R111, Serine/threonine-protein kinase Nek2, HSPK 21, Never in mitosis A-related kinase 2, NimA-related protein kinase 2, NimA-like protein kinase 1, NEK2</p> <p>Background: Protein kinase which is involved in the control of centrosome separation and bipolar spindle formation in mitotic cells and chromatin condensation in meiotic cells. Regulates centrosome separation (essential for the formation of bipolar spindles and high-fidelity chromosome separation) by phosphorylating centrosomal proteins such as CROCC, CEP25 and NINL, resulting in their displacement from the centrosomes. Regulates kinetochore microtubule attachment stability in mitosis via phosphorylation of NDC8. Involved in regulation of mitotic checkpoint protein complex via phosphorylation of CDC2 and MAD2L1. Plays an active role in chromatin condensation during the first meiotic division through phosphorylation of HMGA2. Phosphorylates: PPP1CC, SGOL1, NECAB3 and NPM1. Essential for localization of MAD2L1 to kinetochore and MAPK1 and NPM1 to the centrosome. Isoform 1 phosphorylates and activates NEK11 in G1/S-arrested cells. Isoform 2, which is not present in the nucleolus, does not.</p>
Gene ID:	4751
UniProt:	P51955
Pathways:	M Phase

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	<p>Zeng, Han, Wang, Cai, Huang, Luo, Liu, Zhuo, Dai, Zhao, Liang, Zhong: "Overexpression of NIMA-related kinase 2 is associated with progression and poor prognosis of prostate cancer." in: BMC urology, Vol. 15, pp. 90, (2015) (PubMed).</p> <p>Zhong, Guan, Dong, Yang, Liu, Zhang: "Examining Nek2 as a better proliferation marker in non-small cell lung cancer prognosis." in: Tumour biology, Vol. 35, Issue 7, pp. 7155-62, (2014) (PubMed).</p> <p>Zhong, Guan, Liu, Zhang: "Aberrant expression of NEK2 and its clinical significance in non-small cell lung cancer." in: Oncology letters, Vol. 8, Issue 4, pp. 1470-1476, (2014) (PubMed).</p>
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