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# Datasheet for ABIN968054 anti-NEK2 antibody (AA 244-444)

4 Images

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#### Overview

Quantity:	150 µg
Target:	NEK2
Binding Specificity:	AA 244-444
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NEK2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

## Product Details

Immunogen:	Human Nek2 aa. 244-444
Clone:	20-Nek2
Isotype:	lgG1
Characteristics:	<ol> <li>Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>Please refer to us for technical protocols.</li> <li>Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol>
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

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#### Product Details

chromatography.

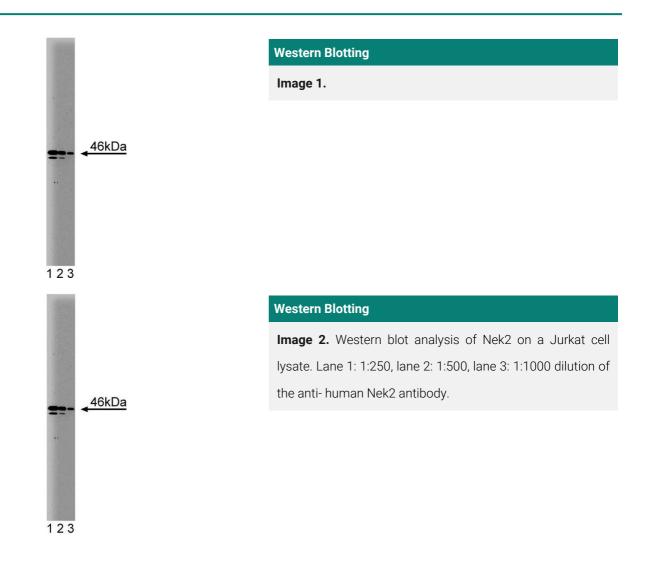
## Target Details

Target:	NEK2
Alternative Name:	Nek2 (NEK2 Products)
Background:	Reversible protein phosphorylation is critical for progression through the cell cycle and mitosis.
	In Aspergillus nidulans, the nima gene (never in mitosis) encodes a protein kinase that is
	essential for mitosis. Three human genes (nek1, 2, and 3 [Nima-related kinase]) with significant
	homology to the A. nidulans nima have been reported. The nek2 gene encodes a protein of 445
	amino acids and, like its fungal homolog, its expression is regulated throughout the cell cycle. In
	Hela cells, Nek2 activity and expression are low during M and G1 phases of the cell cycle.
	However, both parameters increase during S phase and mitosis. In addition, Nek2
	phosphorylates protein substrates exclusively at serine and threonine residues. Thus, like its
	fungal homolog, Nek2 may be a crucial element in controlling the cell's entry into S phase and
	mitosis. This antibody is routinely tested by western blot analysis.
	Synonyms: Nima Related Kinase 2
Molecular Weight:	46 kDa
Pathways:	M Phase
Application Details	
Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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:	-20 °C

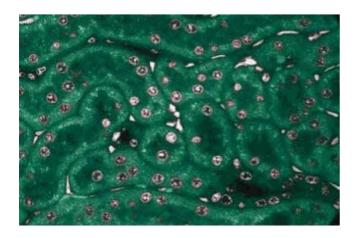
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Handling	
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Fry, Schultz, Bartek, Nigg: "Substrate specificity and cell cycle regulation of the Nek2 protein
	kinase, a potential human homolog of the mitotic regulator NIMA of Aspergillus nidulans." in:
	The Journal of biological chemistry, Vol. 270, Issue 21, pp. 12899-905, (1995) (PubMed).
	Schultz, Fry, Sütterlin, Ried, Nigg: "Cell cycle-dependent expression of Nek2, a novel human
	protein kinase related to the NIMA mitotic regulator of Aspergillus nidulans." in: Cell growth &
	differentiation : the molecular biology journal of the American Association for Cancer
	Research, Vol. 5, Issue 6, pp. 625-35, (1994) (PubMed).

#### Images



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#### Immunofluorescence

Image 3. Immunofluorescence staining of rabbit kidney.

Please check the product details page for more images. Overall 4 images are available for ABIN968054.

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