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anti-NEK2 antibody (AA 244-444)

2 Images



Publication



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Quantity:	50 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:	IgG1	
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.	
	2. Please refer to us for technical protocols.	
	3. 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.	
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity	

Target	Detail	ls
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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		

Handling

Storage Comment:

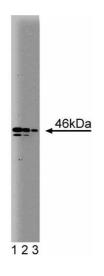
Store undiluted at -20° C.

Publications

Product cited in:

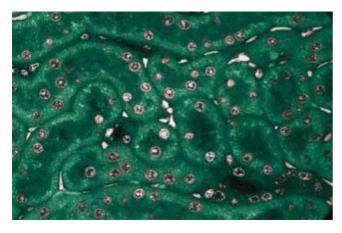
Fry, Schultz, Bartek, Nigg: "Substrate specificity and cell cycle regulation of the Nek2 protein kinase, a potential human homolog of the mitotic regulator NIMA of Aspergillus nidulans." in: **The Journal of biological chemistry**, Vol. 270, Issue 21, pp. 12899-905, (1995) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of Nek2 on a Jurkat cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the anti- human Nek2 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of rabbit kidney.