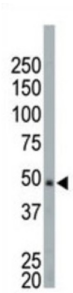
Serine, Threonine-Protein Kinase Nek2 (NEK2) Antibody

Catalogue No.:abx025140



NEK2 is closely related in its catalytic domain to the serine/threonine protein kinase NIMA of Aspergillus nidulans which is required for entry into mitosis and may function in parallel to the universal mitotic inducer p34cdc2. Like NIMA, the Nek2 protein is almost undetectable during G1 but accumulates progressively throughout S, reaching maximal levels in late G2. These observations demonstrate that NEK2 resembles Aspergillus NIMA, both in its catalytic domain, and cell cycle-dependent expression. Recombinant NEK2 is active as a serine/threonine-specific protein kinase and may undergo autophosphorylation. Both human NEK2 and fungal NIMA phosphorylate a similar, but not identical, set of proteins and synthetic peptides. NEK2 is shown to be expressed most abundantly in adult testis and there is increasing evidence that NEK2 is abnormally expressed in a wide variety of human cancers. This antibody is specific to isoform 2 of NEK2.

Target:	Serine, Threonine-Protein Kinase Nek2 (NEK2)
Clonality:	Polyclonal
Reactivity:	Human
Tested Applications:	ELISA, WB
Host:	Rabbit
Recommended dilutions:	WB: 1/1000. Optimal dilutions/concentrations should be determined by the end user.
Conjugation:	Unconjugated
Immunogen:	KLH-conjugated synthetic peptide between 350-382 amino acids from the Central region of human NEK2.
Isotype:	IgG
Form:	Liquid
Purification:	Purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Storage:	Aliquot and store at -20°C. Avoid repeated freeze/thaw cycles.

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UniProt Primary AC:	P51955 (UniProt, ExPASy)
KEGG:	hsa:4751
String:	9606.ENSP00000355966
Molecular Weight:	Calculated MW: 51.8 kDa
Buffer:	PBS containing 0.09% sodium azide.
Note:	THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

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