

anti- NEK2 antibody

Product Information

Catalog No.:	FNab05652
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

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, CEP250 and NINL, resulting in their displacement from the centrosomes. Regulates kinetochore microtubule attachment stability in mitosis via phosphorylation of NDC80. Involved in regulation of mitotic checkpoint protein complex via phosphorylation of CDC20 and MAD2L1. Plays an active role in chromatin condensation during the first meiotic division through phosphorylation of HMGA2. Phosphorylates: PPP1CC; SGO1; NECAB3 and NPM1. Essential for localization of MAD2L1 to kinetochore and MAPK1 and NPM1 to the centrosome. Phosphorylates CEP68 and CNTLN directly or indirectly(PubMed:24554434). NEK2-mediated phosphorylation of CEP68 promotes CEP68 dissociation from the centrosome and its degradation at the onset of mitosis(PubMed:25704143). Involved in the regulation of centrosome disjunction(PubMed:26220856). Isoform 1: Phosphorylates and activates NEK11 in G1/S-arrested cells. Isoform 2: Not present in the nucleolus and, in contrast to isoform 1, does not phosphorylate and activate NEK11 in G1/S-arrested cells.

Immunogen information

Immunogen: NIMA(never in mitosis gene a)-related kinase 2

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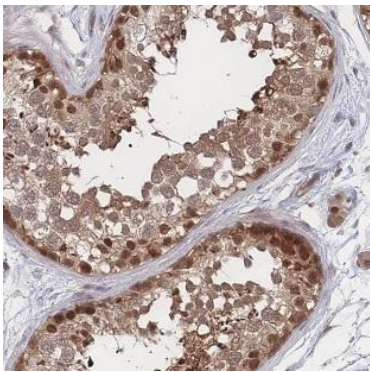
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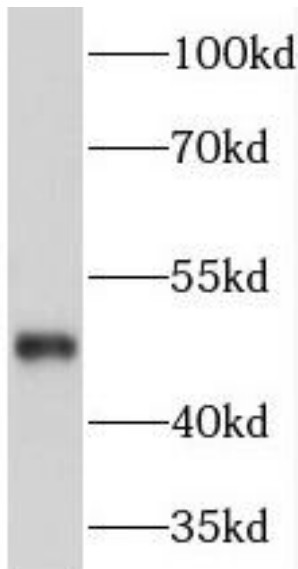
Synonyms: NEK2A, NLK1
Observed MW: 48kd
UniprotID : P51955

Application

Reactivity: Human, Mouse, Rat
Tested Application: ELISA, WB, IHC
Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200
Image:



Immunohistochemistry of paraffin-embedded human testis tissue slide using FNab05652(NEK2 Antibody) at dilution of 1:50



K-562 cells were subjected to SDS PAGE followed by western blot with FNab05652(NEK2 antibody) at dilution of 1:500

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