

Product Name: KD-Validated NEK2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01774**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 51.8kDa

Antigen Information

Gene Name	NEK2
Alternative Names	NEK2; NIMA Related Kinase 2; NEK2A; NLK1; PPP1R111; RP67; NIMA (Never In Mitosis Gene A)-Related Kinase 2; Protein Phosphatase 1, Regulatory Subunit 111; Serine/Threonine-Protein Kinase Nek2; NimA-Related Protein Kinase; NimA-Like Protein Kinase 1; EC 2.7.11.1; Never In Mitosis A-Related Kinase; EC 2.7.11; HsPK 21; HSPK 21; HsPK21
Gene ID	4751.0
SwissProt ID	P51955
Immunogen	A synthesized peptide derived from human NEK2

Background

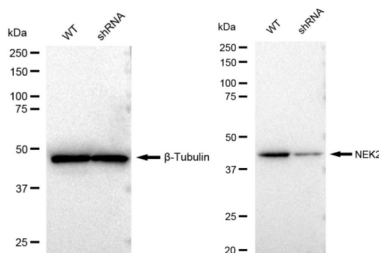
This gene encodes a serine/threonine-protein kinase that is involved in mitotic regulation. This protein is localized to the

centrosome, and undetectable during G1 phase, but accumulates progressively throughout the S phase, reaching maximal levels in late G2 phase. Alternatively spliced transcript variants encoding different isoforms with distinct C-termini have been noted for this gene. [provided by RefSeq, Feb 2011]

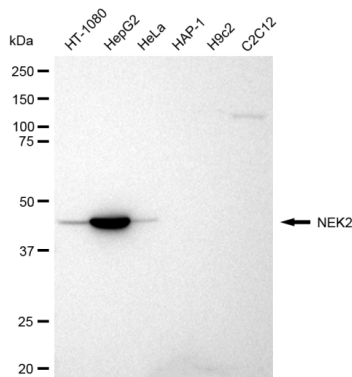
Research Area

Cell Biology, Signal Transduction, Cancer

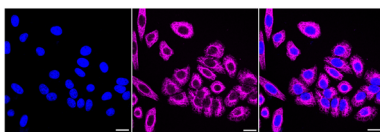
Image Data



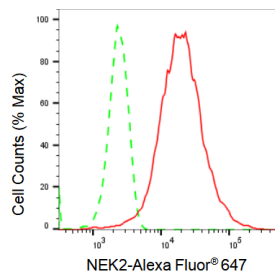
Western blotting analysis using NEK2 antibody (KVA01774). NEK2 expression in wild type (WT) and NEK2 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with NEK2 antibody (KVA01774, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using NEK2 antibody (KVA01774). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NEK2 antibody (KVA01774, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with NEK2 antibody (KVA01774, 1:1,000). Nuclei were stained blue with DAPI; NEK2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of NEK2 expression in HepG2 cells using NEK2 antibody (KVA01774, 1:2,000). Green, isotype control; red, NEK2.