

Product Name: KD-Validated NIMA Related Kinase 6 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00976

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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: 35.7kDa

Antigen Information

Gene Name	NEK6
Alternative Names	NIMA Related Kinase 6; SID6-1512; NIMA (Never In Mitosis Gene A)-Related Kinase 6; Putative Serine-Threonine Protein Kinase; Serine/Threonine-Protein Kinase Nek6; Never In Mitosis A-Related Kinase 6; NimA-Related Protein Kinase 6; Protein Kinase SID6-1512; EC 2.7.11.34; EC 2.7.11.1
Gene ID	10783.0
SwissProt ID	Q9HC98
Immunogen	A synthesized peptide derived from human NEK6

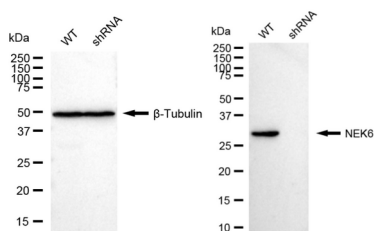
Background

The protein encoded by this gene is a kinase required for progression through the metaphase portion of mitosis. Inhibition of the encoded protein can lead to apoptosis. This protein also can enhance tumorigenesis by suppressing tumor cell senescence. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

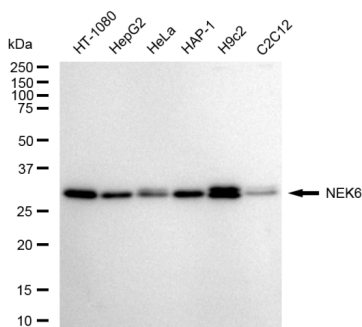
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer

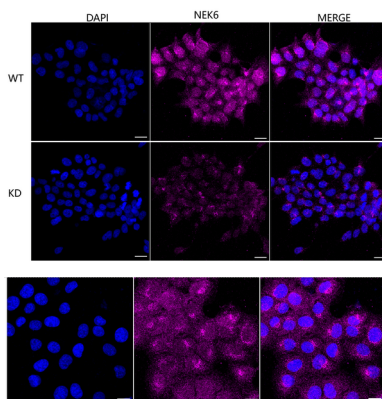
Image Data



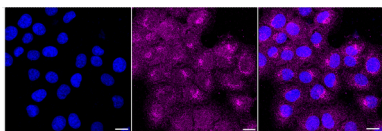
Western blotting analysis using NEK6 antibody (KVA00976). NEK6 expression in wild type (WT) and NEK6 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with NEK6 antibody (KVA00976, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



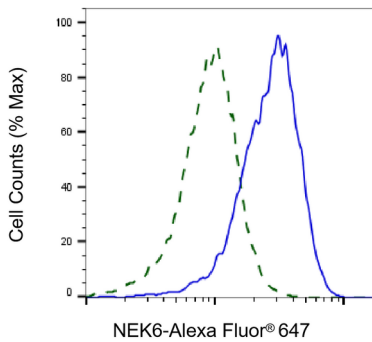
Western blotting analysis using NEK6 antibody (KVA00976). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NEK6 antibody (KVA00976, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



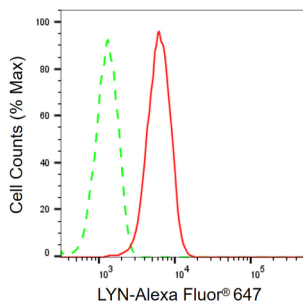
Immunocytochemical staining of HeLa cells using NEK6 antibody (KVA00976, 1:1,000). Top panel: wild-type (WT); Bottom panel: NEK6 shRNA knockdown (KD). Nuclei were stained blue with DAPI; NEK6 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HT-1080 cells with NEK6 antibody (KVA00976, 1:1,000). Nuclei were stained blue with DAPI; NEK6 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of NEK6 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NEK6 antibody (KVA00976, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NEK6 expression in HT-1080 cells using NEK6 antibody(KVA00976, 1:2,000). Green, isotype control; red, NEK6.