Product Name: KD-Validated Phospho-NAK/TBK1 (S172) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01680

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: 83.6kDa

Antigen Information

Gene Name	TBK1
Alternative Names	TBK1; TANK Binding Kinase 1; NAK; Serine/Threonine-Protein Kinase TBK1; NF-Kappa-B-Activating Kinase; TANK-Binding Kinase 1; T2K; NF-KB-Activating Kinase; EC 2.7.11.1; EC 2.7.11; FTDALS4; IIAE8
Gene ID	29110.0
SwissProt ID	Q9UHD2
Immunogen	A synthesized peptide derived from human Phospho-NAK/TBK1 (S172)

Background

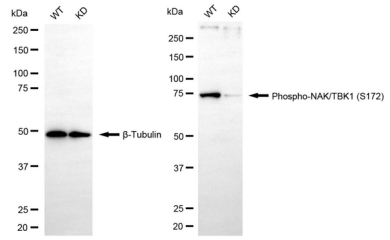
The NF-kappa-B (NFKB) complex of proteins is inhibited by I-kappa-B (IKB) proteins, which inactivate NFKB by trapping it in the

cytoplasm. Phosphorylation of serine residues on the IKB proteins by IKB kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation and nuclear translocation of the NFKB complex. The protein encoded by this gene is similar to IKB kinases and can mediate NFKB activation in response to certain growth factors. The protein is also an important kinase for antiviral innate immunity response. [provided by RefSeq, Sep 2021]

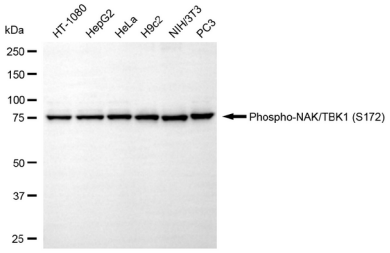
Research Area

Signal Transduction,Epigenetics and Nuclear Signaling,Neuroscience

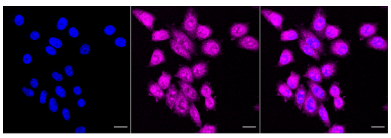
Image Data



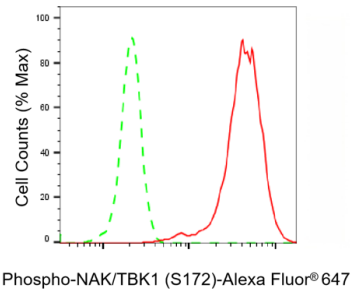
Western blotting analysis using phospho-NAK/TBK1 (S172) antibody (KVAb01680). Phospho-NAK/TBK1 (S172) expression in wild-type (WT) and TBK1 knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with phospho-NAK/TBK1 (S172) antibody (KVAb01680, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phospho-NAK/TBK1 (S172) antibody (KVAb01680). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-NAK/TBK1 (S172) antibody (KVAb01680, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Phospho-NAK/TBK1 (S172) antibody (KVAb01680, 1:1,000). Nuclei were stained blue with DAPI; Phospho-NAK/TBK1 (S172) 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.



Phospho-NAK/TBK1 (S172)-Alexa Fluor® 647

Flow cytometric analysis of Phospho-NAK/TBK1 (S172) expression in HepG2 cells using Phospho-NAK/TBK1 (S172) antibody (KVAb01680, 1:2,000). Green, isotype control; red, Phospho-NAK/TBK1 (S172).