[KD Validated] Anti-NAK/TBK1 (Ser172) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R021754

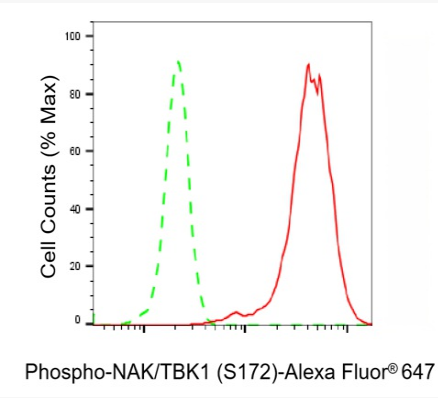
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	25A29S35
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human NAK/TBK1 (Ser172)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-NAK/TBK1 (Ser172) Rabbit mAb [25A29S35] is for research use only and not for use in diagnostic or therapeutic procedures.

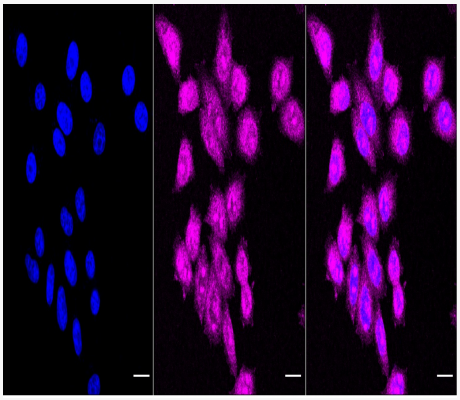
Protein Information

Synonyms	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.
Calculated MW	Calculated MW: 84 kDa; Observed MW: 75 kDa
Uniprot ID	Q9UHD2
Gene ID	29110
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.

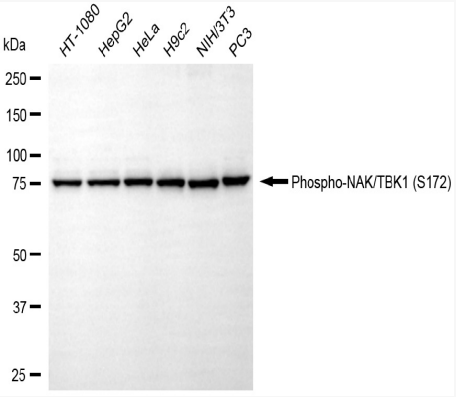
Validation Images



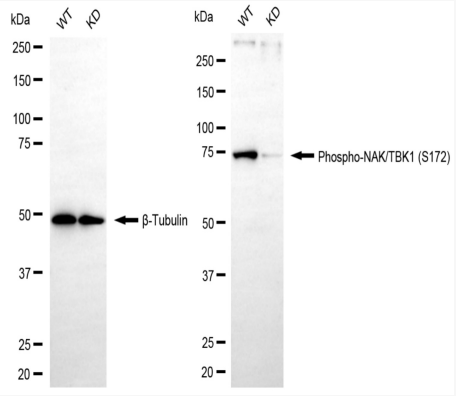
Flow cytometric analysis of Phospho-NAK/TBK1 (S172) expression in HepG2 cells using Phospho-NAK/TBK1 (S172) antibody (R021754, 1:2,000). Green, isotype control; red, Phospho-NAK/TBK1 (S172).



Immunocytochemical staining of HepG2 cells with Phospho-NAK/TBK1 (S172) antibody (R021754, 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.



Western blotting analysis using phospho-NAK/TBK1 (S172) antibody (R021754). 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 (R021754, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using phospho-NAK/TBK1 (S172) antibody (R021754). 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 (R021754, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.