[KD Validated] Anti-TBK1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020830

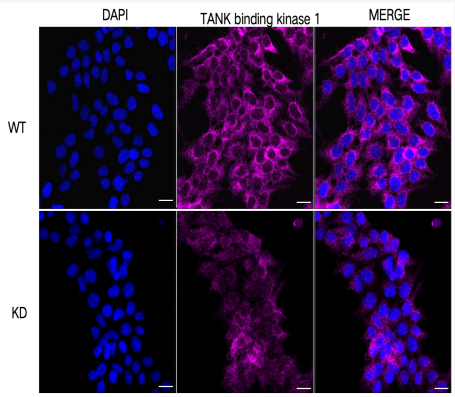
Product Information

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.	17E54M68
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human NAK/TBK1 (N-term)
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-TBK1 Rabbit mAb [17E54M68] is for research use only and not for use in diagnostic or therapeutic procedures.

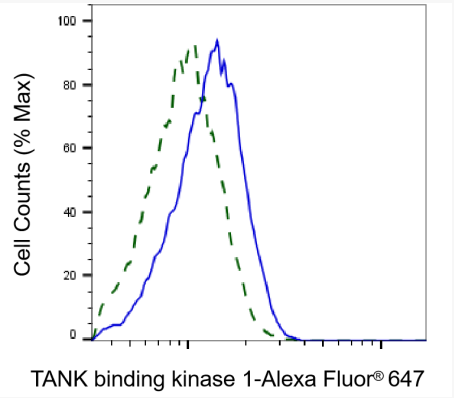
Protein Information

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: 83 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.

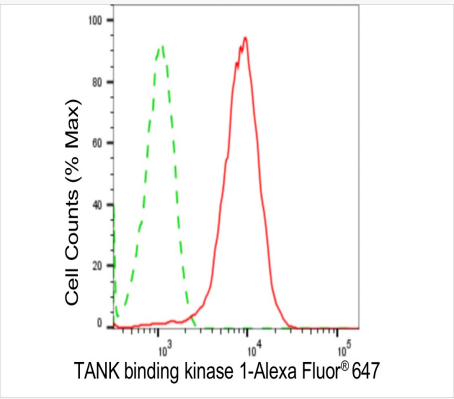
Validation Images



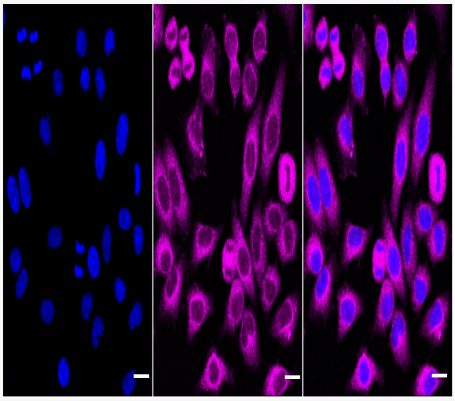
Immunocytochemical staining of HeLa cells using TANK binding kinase 1 antibody (R020830, 1:1,000), Top panel: wild-type (WT); Bottom panal: TANK binding kinase 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; TANK binding kinase 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



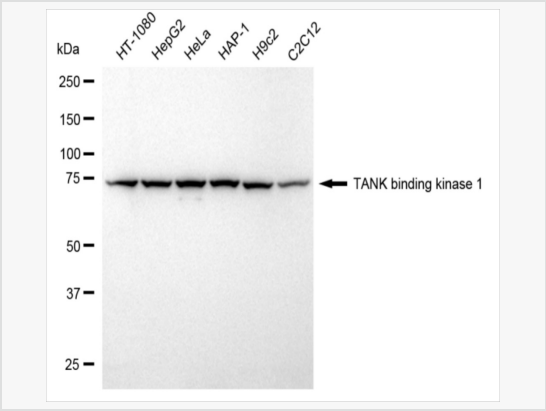
Validation of TANK binding kinase 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with TANK binding kinase 1 antibody (R020830, 1:2,000) and analyzed using BD flow cytometer.



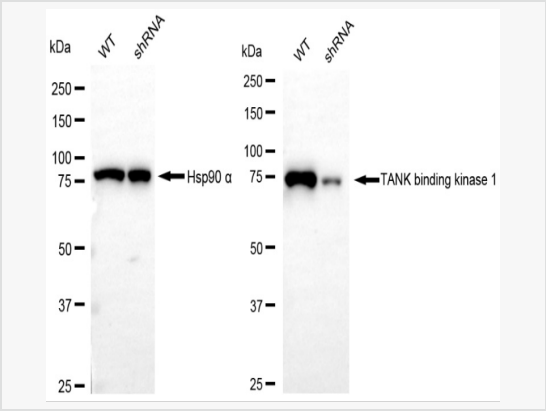
Flow cytometric analysis of TANK binding kinase 1 expression in HepG2 cells using TANK binding kinase 1 antibody (R020830, 1:2,000). Green, isotype control; red, TANK binding kinase 1.



Immunocytochemical staining of HepG2 cells with TANK binding kinase 1 antibody (R020830, 1:1,000) . Nuclei were stained blue with DAPI; TANK binding kinase 1 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 TANK binding kinase 1 antibody (R020830). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with TANK binding kinase 1 antibody (R020830, 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 TANK binding kinase 1 antibody (R020830). TANK binding kinase 1 expression in wild type (WT) and TANK binding kinase 1 (TBK1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with TANK binding kinase 1 antibody (R020830, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.