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Phospho-TBK1/NAK-S172 Rabbit mAb

Catalog No.: AP1634 Recombinant

Basic Information

Observed MW
84 kDa

Calculated MW
84 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,ELISA

Cross-Reactivity
Human

CloneNo number
ARC3838

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.

Recommended Dilutions

WB	1:1000 - 1:3000
IP	0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells
IF/ICC	1:100 - 1:400
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
29110

Swiss Prot
Q9UHD2

Immunogen
This information is considered to be commercially sensitive.

Synonyms
NAK; T2K; AIARV; IIAE8; FTDALS4

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% sodium azide,0.05% BSA,50% glycerol,pH7.3

Contact

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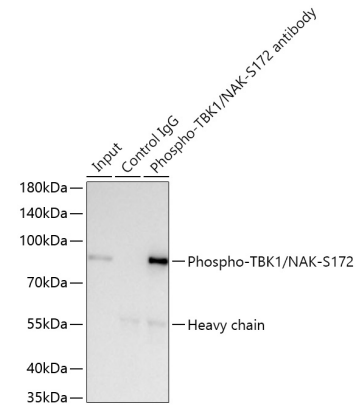
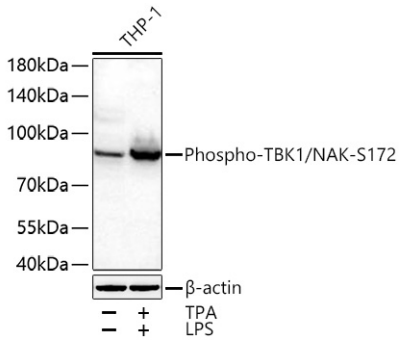
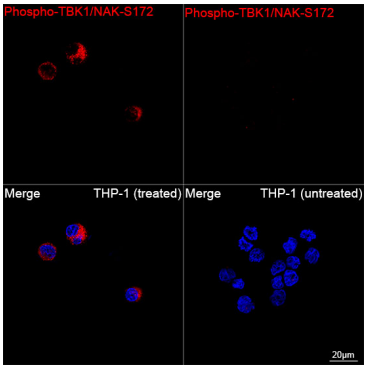
Validation Data



Immunoprecipitation of Phospho-TBK1/NAK-S172 from 600 µg extracts of THP-1 cells treated with TPA (80 nM, 48h) and LPS (1 µ/mL, 1h) was performed using 1 µg of Phospho-TBK1/NAK-S172 Rabbit mAb (AP1634). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using Phospho-TBK1/NAK-S172 Rabbit mAb (AP1634) at a dilution of 1:1000.



Western blot analysis of various lysates using Phospho-TBK1/NAK-S172 Rabbit mAb (AP1634) at 1:3000 dilution incubated overnight at 4℃. THP-1 cells were treated with TPA (80 nM) at 37℃ for 48 hours and LPS (1 µ/mL)at 37℃ for 1 hour.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



Confocal imaging of THP-1 cells (treated with PMA and LPS) and THP-1 cells (untreated) using Phospho-TBK1/NAK-S172 Rabbit mAb (AP1634, dilution 1:300) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.