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[KO Validated] TBK1/NAK Rabbit mAb

Catalog No.: A3458

Recombinant | 34 Publications

Basic Information

Observed MW
84 kDa

Calculated MW
84 kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IF/ICC, IHC-P, ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC0778

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	1:4000 - 1:15000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:100 - 1:800
IHC-P	1:500 - 1:1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
29110

Swiss-Prot
Q9UHD2

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
NAK; T2K; IIAE8; FTDALS4; TBK1/NAK

Contact

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Product Information

Source
Rabbit

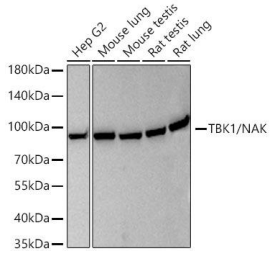
Isotype
IgG

Purity
Affinity purification

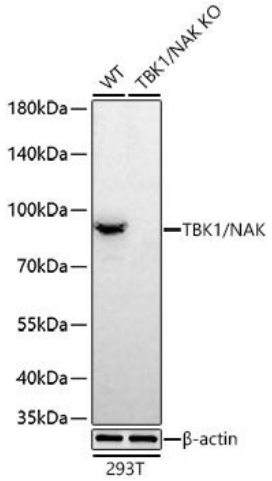
Storage

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

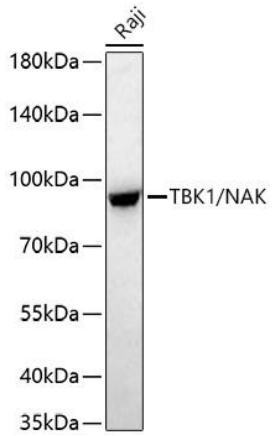
Validation Data



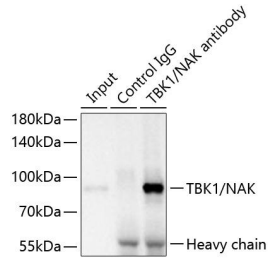
Western blot analysis of various lysates using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at 1:4000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



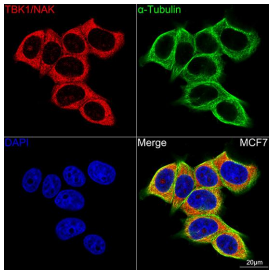
Western blot analysis of lysates from wild type (WT) and TBK1/NAK knockout (KO) 293T cells using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at 1:7000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



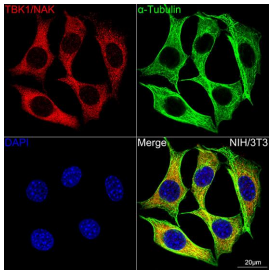
Western blot analysis of lysates from Raji cells using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at 1:7000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.



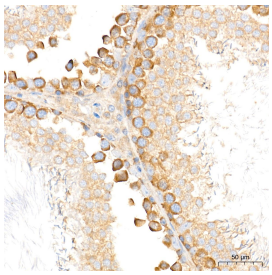
Immunoprecipitation of TBK1/NAK from 300 µg extracts of Mouse lung tissue was performed using 2 µg of [KO Validated] TBK1/NAK Rabbit mAb (A3458). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at a dilution of 1:2000.



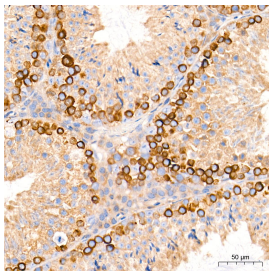
Confocal imaging of MCF7 cells using [KO Validated] TBK1/NAK Rabbit mAb (A3458, at dilution of 1:100) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



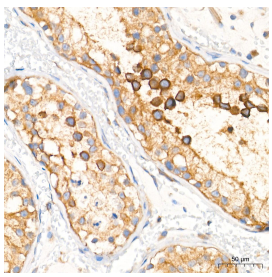
Confocal imaging of NIH/3T3 cells using [KO Validated] TBK1/NAK Rabbit mAb (A3458,at dilution of 1:100) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at a dilution of 1:750 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at a dilution of 1:750 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Human testis tissue using [KO Validated] TBK1/NAK Rabbit mAb (A3458) at a dilution of 1:750 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.