

Anti-NAK/TBK1 (N-term) Rabbit Monoclonal Antibody

Catalog Number: M00261

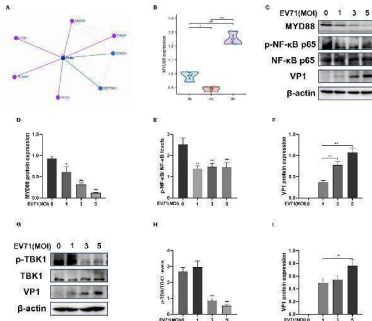
Overview

Product Name	Anti-NAK/TBK1 (N-term) Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-NAK/TBK1 (N-term) Rabbit Monoclonal Antibody catalog # M00261. Tested in WB, IHC, ICC/IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, ICC, WB
Clonality	Monoclonal AHE-20
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9UHD2

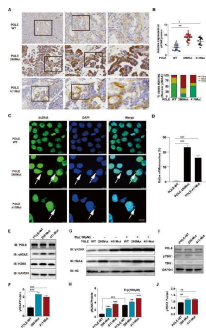
Technical Details

Immunogen	A synthesized peptide derived from human NAK/TBK1 (N-term)
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB 1:500-2000 IHC 1:50-200 ICC/IF 1:50-200

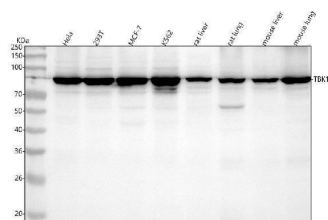
Anti-NAK/TBK1 (N-term) Rabbit Monoclonal Antibody (M00261) Images



EV71 infection inhibits the TLR4/MyD88/NF-kappaB and TBK1 pathway. (A) The network of TLR4 interacting proteins; (B) MYD88 gene expression of the GSE15323 dataset from the GEO database; (C-F) Western blot analysis of MYD88, p-NF-kappaB p65, NF-kappaB p65 and VP1 protein expression in EV71 infected RD cells at different MOIs. (G-I) Western blot analysis of p-TBK1/TBK1 and VP1 protein expression in EV71 infected RD cells at different MOIs. Data are presented as the mean \pm SD. * P < 0.05, ** P < 0.01, *** P < 0.001 vs control group. Index in PubMed under a CC BY license. PMID: 38938877

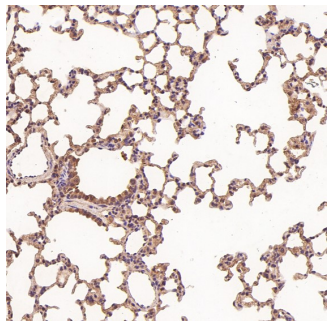


POLE mutations promote the occurrence of endogenous DNA breaks. A Immunohistochemical analysis of gammaH2AX expression in human EC specimens. The images are sequentially magnified from left to right and the black frames indicate the amplification area. Scale bar, 100 μ m. B Quantification of nuclear gammaH2AX staining intensity in the (A). C Immunofluorescence analysis of micronucleus in human EC cells with WT POLE or P286R mutation. Scale bar, 25 μ m. D Quantification of genomic damage by the micronucleus assay. E Western blot analyses of gammaH2AX and H2AX proteins in human EC cells with POLE mutation or WT POLE. F Quantification of gammaH2AX and H2AX expression levels in the EC cells treated as in (E). G Western blot analyses of gammaH2AX and H2AX proteins in human EC cells bearing POLE mutant or WT POLE in the absence or presence of Etoposide (100 μ M). H Quantification of gammaH2AX expression level in the EC cells treated as in (G). I Western blotting of TBK1 and its phosphorylation in human EC cells with WT or mutant POLE. J Quantification of TBK1 phosphorylation level in the EC cells treated as in (I). Data are shown as mean \pm SD. * p

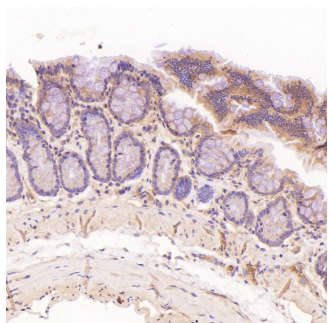


Western blot analysis of NAK/TBK1 using anti-NAK/TBK1 antibody (M00261). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 μ g of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human MCF-7 whole cell lysates, Lane 4: human K562 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat lung tissue lysates, Lane 7: mouse liver tissue lysates, Lane 8: mouse lung tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NAK/TBK1 antigen affinity purified monoclonal antibody (Catalog # M00261) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced

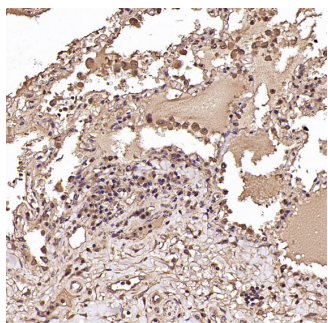
Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for NAK/TBK1 at approximately 84 kDa. The expected band size for NAK/TBK1 is at 84 kDa.



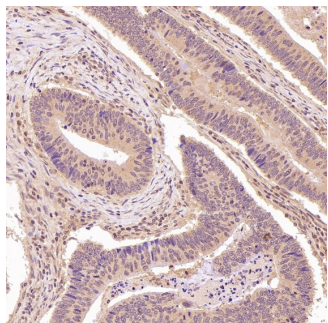
Immunohistochemical analysis of paraffin-embedded Rat liver, using the Antibody at 1:50 dilution.



Immunohistochemical analysis of paraffin-embedded Rat stomach, using the Antibody at 1:50 dilution.

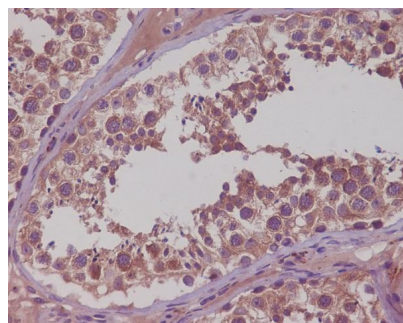
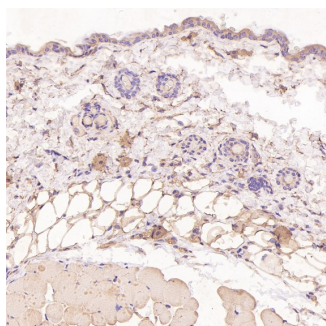


Immunohistochemical analysis of paraffin-embedded Human lung, using the Antibody at 1:50 dilution.

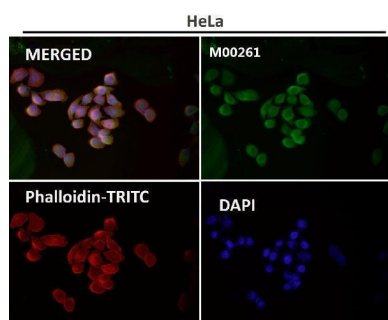


Immunohistochemical analysis of paraffin-embedded Human colon cancer, using the Antibody at 1:100 dilution.

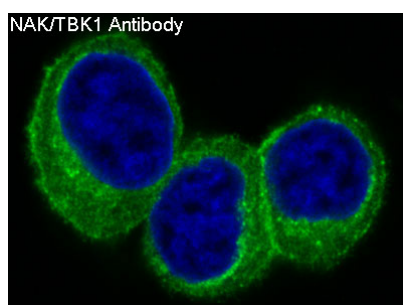
Immunohistochemical analysis of paraffin-embedded Mouse skin, using the Antibody at 1:50 dilution.



Immunohistochemical analysis of paraffin-embedded human testis, using NAK/TBK1 (N-term) Antibody.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis of MCF7 cells, using NAK/TBK1 (N-term) Antibody.

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