Best Tools for immunology Research

TBK1/NAK (Phospho Ser172) rabbit pAb

Catalog No :	YP1527
Reactivity :	Human;Mouse
Applications :	ELISA
Target :	TBK1
Fields :	>>Ras signaling pathway;>>Mitophagy - animal;>>Autophagy - animal;>>Toll-like receptor signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>Cytosolic DNA-sensing pathway;>>IL-17 signaling pathway;>>Alcoholic liver disease;>>Amyotrophic lateral sclerosis;>>Pathways of neurodegeneration - multiple diseases;>>Shigellosis;>>Yersinia infection;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Human cytomegalovirus infection;>>Influenza A;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Human immunodeficiency virus 1 infection;>>Coronavirus disease - COVID-19;>>Lipid and atherosclerosis
Gene Name :	TBK1 NAK
Protein Name :	TBK1/NAK (Ser172)
Human Gene Id :	29110
Human Swiss Prot No :	Q9UHD2
Mouse Gene Id :	56480
Mouse Swiss Prot No :	Q9WUN2
Immunogen :	Synthesized phosho peptide around human TBK1 and NAK (Ser172)
Specificity :	This antibody detects endogenous levels of Human Mouse TBK1/NAK (phospho-Ser172)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

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Source :	Polyclonal, Rabbit,IgG
Dilution :	ELISA: 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	80kD
Cell Pathway :	Toll_Like;RIG-I-like receptor;Cytosolic DNA-sensing pathway;
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. [provided by RefSeq, Oct 2010],
Function :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Serine/threonine protein involved in the signaling cascade converging to the activation of the transcription factor NF-kappa-B. May function as an IKK kinase, playing an essential role in the transcription of a subset of TNF-alpha-induced genes. Also mediates production of RANTES/CCL5 and interferon-beta/IFNB1. Has a pivotal role in the innate immune response. Phosphorylates Borna disease virus (BDV) P protein. Phosphorylates and activates IRF3 and IRF7 and allows their nuclear localization. This leads to production of alpha/beta interferons and the development of a cellular antiviral state. It also seems to be a central factor in the induction of the antiviral interferon response. Inhibition of its interaction with IRF3, due to HCV NS3 binding or BDV P protein seems to be one mechanism of inhibition of the innate immu
Subcellular Location :	Cytoplasm . Upon mitogen stimulation or triggering of the immune system, TBK1 is recruited to the exocyst by EXOC2. .
Expression :	Ubiquitous with higher expression in testis. Expressed in the ganglion cells, nerve fiber layer and microvasculature of the retina.

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