

TBK1 (Phospho Ser172) (PT0905R) PT™ Rabbit mAb

CatalogNo: YM8674 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Bovine

Applications

- WB, IF, ELISA

MW

- 84kD (Calculated)
- 84kD (Observed)

Isotype

- IgG, Kappa

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:2000-1:10000**IF 1:200-1:1000****ELISA 1:5000-1:20000**

Basic Information

Clonality Monoclonal**Clone Number** PT0905R

Immunogen Information

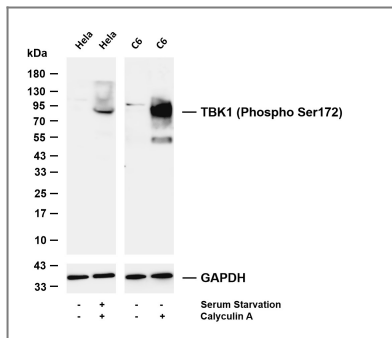
Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity TBK1 (Phospho Ser172) Antibody detects endogenous levels of TBK1 protein only when phosphorylated at Ser172. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):FVSLY

| Target Information

Gene name	TBK1 NAK		
Protein Name	TBK1/NAK (Ser172)		
	Organism	Gene ID	UniProt ID
	Human	29110 ;	Q9UHD2 ;
	Mouse	56480 ;	Q9WUN2 ;
Cellular Localization	Cytoplasm . Upon mitogen stimulation or triggering of the immune system, TBK1 is recruited to the exocyst by EXOC2. .		
Tissue specificity	Ubiquitous with higher expression in testis. Expressed in the ganglion cells, nerve fiber layer and microvasculature of the retina.		
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 immune responses of hepatitis C virus (HCV) infection or Borna disease virus infection respectively.,similarity:Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with TIRAP, TANK and TRAF2. Part of a ternary complex consisting of TANK, TRAF2 and TBK1. Interacts with AZI2. Interacts with SIKE. Interacts with TICAM1/TRIF, IRF3 and DDX58/RIG-I, interactions are disrupted by the interaction between TBK1 and SIKE. Interacts with HCV NS3, a hepatitis C virus protein and with BDV P protein, a Borna disease virus protein.,tissue specificity:Ubiquitous with higher expression in testis.,		

| Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TBK1 (Phospho Ser172) (PT0905R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: HeLa serum was starved overnight and treated with 20% FBS and Calyculin A (100nM) for 15 minutes Lane 3: C6 Lane 4: C6 was treated with Calyculin A (100nM) for 30 minutes Predicted band size: 84kDa Observed band size: 84kDa

Contact information

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TBK1 (Phospho Ser172) (PT0905R)
PT™ Rabbit mAb

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