Mouse Monoclonal Antibody TBK1 conjugated to Sepharose Beads

CatalogNo: ANT8322-S

Size 200ul

Storage Store at 4 °C for frequent use

Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

TBK1 (ANT0090R) Rabbit mAb

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN3a3 preservative.

Host Species	Reactivity	Applications
• Rabbit • Human,Mouse,Rat,	• WB,IHC,IF,IP,ELISA	

MW	Isotype
• 84kD (Calculated) 84kD (Observed)	• IgG,Kappa

Recommended Dilution Ratios

IP

Basic Information

Clonality	Monoclonal

Clone Number ANT0090R

Immunogen Information

Specificity Endogenous

Gene name TBK1

Protein Name Serine/threonine-protein kinase TBK1

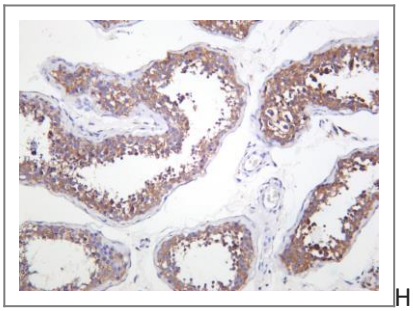
Organism	Gene ID	UniProt ID
Human	29110;	Q9UHD2;
Mouse	56480;	Q9WUN2;

Cellular Localization Cytoplasm

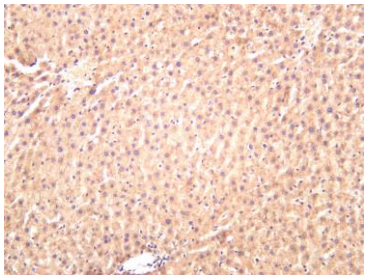
Tissue specificity Ubiquitous with higher expression in testis. Expressed in the ganglion cells, nerve fiber layer and microvasculature of the retina.

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.,

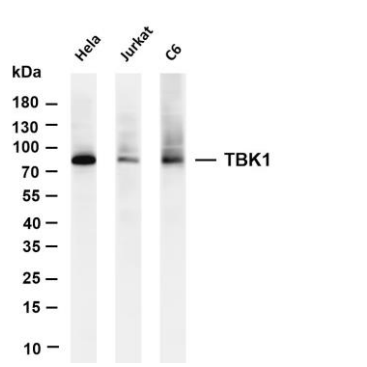
Validation Data



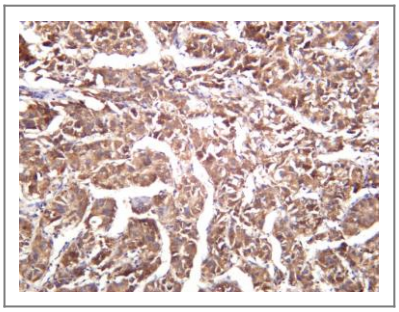
Human testis was stained with anti-TBK1 (ANT0090R) rabbit antibody



Rat liver was stained with anti-TBK1 (ANT0090R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TBK1 (ANT0090R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: Jurkat Lane 3: C6
Predicted band size: 84kDa
Observed band size: 84kDa



Human hepatocellular carcinoma was stained with anti-TBK1 (ANT0090R) rabbit antibody