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# Datasheet for ABIN746363 anti-TBK1 antibody (pSer172)

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## Overview

Quantity:	100 µL
Target:	TBK1
Binding Specificity:	pSer172
Reactivity:	Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TBK1 antibody is un-conjugated
Application:	Western Blotting (WB)
Product Details	
Immunogen:	KLH conjugated synthetic phosphopeptide derived from human TBK1 around the
	phosphorylation site of Ser172
lsotype:	lgG
Spacificit <i>u</i> :	This phasphanylation site is homologous across the listed species

Specificity:	This phosphorylation site is homologous across the listed species.
Cross-Reactivity:	Human, Mouse
Purification:	Purified by Protein A.

## Target Details

Target:	TBK1
Alternative Name:	TBK1 (TBK1 Products)

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Target Details	
Background:	Synonyms: NAK, T2K, Serine/threonine-protein kinase TBK1, NF-kappa-B-activating kinase,
	TANK-binding kinase 1, TBK1
	Background: Serine/threonine kinase that plays an essential role in regulating inflammatory
	responses to foreign agents. Following activation of toll-like receptors by viral or bacterial
	components, associates with TRAF3 and TANK and phosphorylates interferon regulatory
	factors (IRFs) IRF3 and IRF7 as well as DDX3X. This activity allows subsequent
	homodimerization and nuclear translocation of the IRFs leading to transcriptional activation of
	pro-inflammatory and antiviral genes including IFNA and IFNB. In order to establish such an
	antiviral state, TBK1 form several different complexes whose composition depends on the type
	of cell and cellular stimuli. Thus, several scaffolding molecules including FADD, TRADD, MAVS,
	AZI2, TANK or TBKBP1/SINTBAD can be recruited to the TBK1-containing-complexes. Under
	particular conditions, functions as a NF-kappa-B effector by phosphorylating NF-kappa-B
	inhibitor alpha/NFKBIA, IKBKB or RELA to translocate NF-Kappa-B to the nucleus. Restricts
	bacterial proliferation by phosphorylating the autophagy receptor OPTN/Optineurin on 'Ser-177',
	thus enhancing LC3 binding affinity and antibacterial autophagy. Phosphorylates and activates
	AKT1. Seems to play a role in energy balance regulation by sustaining a state of chronic, low-
	grade inflammation in obesity, wich leads to a negative impact on insulin sensitivity. Attenuates
	retroviral budding by phosphorylating the endosomal sorting complex required for transport-I
	(ESCRT-I) subunit VPS37C. Phosphorylates Borna disease virus (BDV) P protein.
Gene ID:	29110
UniProt:	Q9UHD2
Pathways:	TLR Signaling, Activation of Innate immune Response, Hepatitis C, Toll-Like Receptors Cascades, SARS-CoV-2 Protein Interactome

## Application Details

Destrictions:	For Desserve Liss only
	IF(ICC) 1:50-200
	IF(IHC-F) 1:50-200
	IF(IHC-P) 1:50-200
	IHC-F 1:100-500
	IHC-P 1:200-400
	ELISA 1:500-1000
Application Notes:	WB 1:300-5000

Restrictions:

For Research Use only

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Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

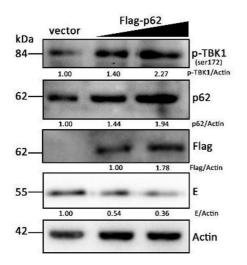
## Publications

Product cited in:

Hu, Pan, Cheng, Zhang, Wang, Chen, Zhu, Liu, Yang, Wu, Zhao, Huang, Zhang, Mao, Ou, Yu, Zhang, Liu, Tian, Pan, Rehman, Yin, Jia: "Autophagy Promotes Duck Tembusu Virus Replication by Suppressing p62/SQSTM1-Mediated Innate Immune Responses In Vitro." in: **Vaccines**, Vol. 8 , Issue 1, (2020) (PubMed).

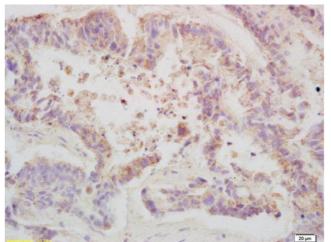
Wan, Chen, Li, Pang, Chen, Nie, Pan, Qiao, Bao: "Porcine FcγRIIb mediated PRRSV ADE infection through inhibiting IFN-β by cytoplasmic inhibitory signal transduction." in: **International journal of biological macromolecules**, Vol. 138, pp. 198-206, (2020) (PubMed).

Takahashi, Loo, Okada, Kamachi, Watanabe, Wakita, Watanabe, Kawamoto, Miyata, Barber, Ohtani, Hara: "Downregulation of cytoplasmic DNases is implicated in cytoplasmic DNA accumulation and SASP in senescent cells." in: **Nature communications**, Vol. 9, Issue 1, pp. 1249, (2018) (PubMed).



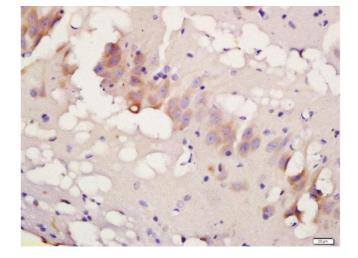
### Western Blotting

**Image 1.** DEF cells were treated as described in Figure 6A, and cells were harvested for Western blot analysis and immunoblotted for p-TBK1 (ABIN746363), p62, Flag, DTMUV-E, and beta-actin. Source:31941042



### Immunohistochemistry

**Image 2.** Formalin-fixed and paraffin embedded human colon carcinoma labeled with Anti-Phospho-TBK1/NAK (Ser172) Polyclonal Antibody, Unconjugated (ABIN746363) at 1:200 followed by conjugation to the secondary antibody and DAB staining



#### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Formalin-fixed and paraffin embedded rat brain labeled with Rabbit Anti-TBK1 (Ser172) Polyclonal Antibody, Unconjugated 1:200 followed by conjugation to the secondary antibody and DAB staining

Please check the product details page for more images. Overall 4 images are available for ABIN746363.

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