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## Datasheet for ABIN6265480 anti-TBK1 antibody (Internal Region)

2 Images



### Overview

Quantity:	100 µL
Target:	TBK1
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TBK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF)

## Product Details

Immunogen:	A synthesized peptide derived from human TBK1, corresponding to a region within the internal amino acids.
lsotype:	lgG
Specificity:	TBK1 Antibody detects endogenous levels of total TBK1.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).

## Target Details

Target:	TBK1	
	Order at www.antibodies-online.com   www.antikoerper-online.de   www.anticorps-enligne.fr   www.antibodies-online.cn International: +49 (0)241 95 163 153   USA & Canada: +1 877 302 8632   support@antibodies-online.com	

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Target Details	
Alternative Name:	TBK1 (TBK1 Products)
Background:	Description: 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 (PubMed:21617041).
	Phosphorylates SMCR8 component of the C9orf72-SMCR8 complex, promoting
	autophagosome maturation (PubMed:27103069). Phosphorylates and activates AKT1
	(PubMed:21464307). 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 (PubMed:21270402). Phosphorylates Borna
	disease virus (BDV) P protein (PubMed:16155125).
	Gene: TBK1
Molecular Weight:	84kDa
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

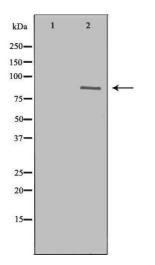
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

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### Handling

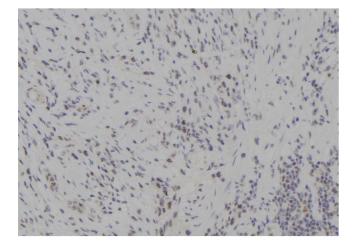
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

## Images



#### Western Blotting

**Image 1.** Western blot analysis of Hela whole cell lysates, using TBK1 Antibody. The lane on the left is treated with the antigen-specific peptide.



#### Immunohistochemistry

**Image 2.** ABIN6277285 at 1/100 staining Human gastric tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22jãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

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