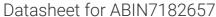
# antibodies - online.com







## anti-TBK1 antibody (AA 166-180)



Image



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Background:

Quantity:	100 μL
Target:	TBK1
Binding Specificity:	AA 166-180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TBK1 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)
Product Details	
Product Details Immunogen:	Synthesized peptide derived from Human Serine/threonine-protein kinase TBK1 protein (166-
	Synthesized peptide derived from Human Serine/threonine-protein kinase TBK1 protein (166-180aa)
Immunogen:	180aa)
Immunogen: Isotype:	180aa) IgG
Immunogen:  Isotype:  Cross-Reactivity:	180aa) IgG Human
Immunogen:  Isotype:  Cross-Reactivity:  Purification:	180aa) IgG Human

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 (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). Aliases: Serine/threonine-protein kinase TBK1 (EC 2.7.11.1) (NF-kappa-B-activating kinase) (T2K) (TANK-binding kinase 1), TBK1, NAK

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: Recommended dilution: IHC:1:100-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

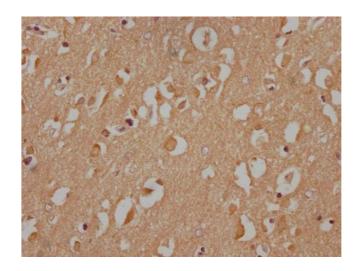
Buffer: Preservative: 0.03 % Proclin 300

Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

#### Handling

Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C,-80 °C	
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.	

### **Images**



#### **Immunohistochemistry**

**Image 1.** IHC image of nphHU diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG labeled by HRP and visualized using 0.05 % DAB.