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Datasheet for ABIN6991059  
**anti-TTBK1 antibody (C-Term)**

### Overview

Quantity:	0.1 mg
Target:	TTBK1 (Ttbk1)
Binding Specificity:	AA 1190-1240, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TTBK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

### Product Details

Immunogen:	TTBK1 antibody was raised against a 16 amino acid synthetic peptide near the carboxy terminus of human TTBK1. The immunogen is located within amino acids 1190 - 1240 of TTBK1.
Isotype:	IgG
Specificity:	Multiple isoforms of TTBK1 are known to exist. This antibody is predicted to not cross-react with TTBK2.
Purification:	TTBK1 Antibody is affinity chromatography purified via peptide column.

### Target Details

Target:	TTBK1 (Ttbk1)
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## Target Details

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Alternative Name: TTBK1 ([Ttbk1 Products](#))

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Background: TTBK1 Antibody: Tau tubulin kinase (TTBK1) belongs to the casein kinase 1 superfamily and is involved in the phosphorylation of specific serine/threonine residues in paired helical filaments of the tau protein. It is specifically expressed in the brain and induces tau aggregation in human neuronal cells in a dose-dependent manner. TTBK1 levels have been found to be upregulated in the brains of Alzheimer's disease (AD) patients, and mice expressing human TTBK1 protein showed significant age-dependent memory impairment. These mice displayed increased levels of the CDK5 activators p25 and p35, and reduced levels of the NMDA receptor types 2B and 2D, suggesting that TTBK1 may play a role in memory dysfunction in AD patients.

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Molecular Weight: Predicted: 145, 151 kDa

Observed: 140 kDa

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Gene ID: 84630

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UniProt: [Q5TCY1](#)

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## Application Details

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Application Notes: TTBK1 antibody can be used for detection of TTBK1 by Western blot at 1  $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5  $\mu$ g/mL. For immunofluorescence start at 20  $\mu$ g/mL.

Antibody validated: Western Blot in human samples, Immunohistochemistry in mouse samples and Immunofluorescence in human samples. All other applications and species not yet tested.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: TTBK1 Antibody is supplied in PBS containing 0.02 % sodium azide.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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## Handling

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Storage: -20 °C, 4 °C

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Storage Comment: TTBK1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.