

Datasheet for ABIN501089
anti-TTBK1 antibody (C-Term)[Go to Product page](#)

2 Images

Overview

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

Product Details

Immunogen:	TTBK1 antibody was raised against a 16 amino acid peptide near the carboxy terminus of human TTBK1.
Isotype:	IgG
Specificity:	This antibody detects TTBK1. It is predicted to not cross-react with TTBK2.
Cross-Reactivity (Details):	Species reactivity (tested): Human, mouse
Purification:	Affinity chromatography

Target Details

Target:	TTBK1 (Ttbk1)
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Target Details

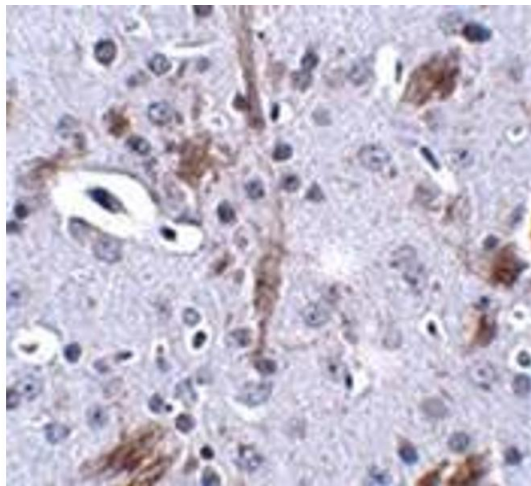
Alternative Name:	TTBK1 (Ttbk1 Products)
Background:	<p>Tau tubulin kinase (TTBK1) belongs to the casein kinase 1 superfamily and is involved in the phosphorylation of specific serine/threonine residues in paired helical filaments of the tau protein. It is specifically expressed in the brain and induces 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. Multiple isoforms of TTBK1 are known to exist. Synonyms: BDTK, Brain-derived tau kinase, KIAA1855, Tau-tubulin kinase 1</p>
Gene ID:	84630
UniProt:	Q5TCY1

Application Details

Application Notes:	<p>ELISA. Western blot: 1 - 2 µg/mL. Immunohistochemistry on paraffin sections.</p> <p>Other applications not tested.</p> <p>Optimal dilutions are dependent on conditions and should be determined by the user.</p>
Restrictions:	For Research Use only

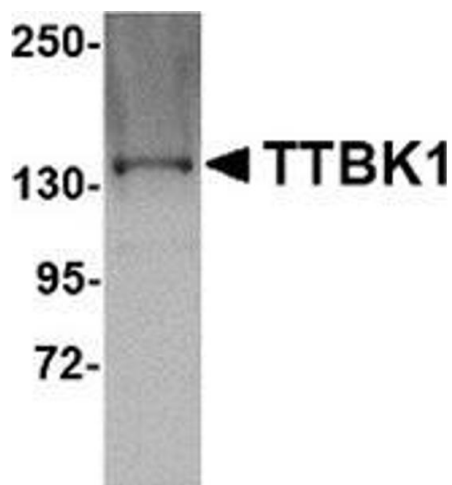
Handling

Buffer:	PBS containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store at 2 - 8 °C for up to one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of TTBK1 in mouse brain tissue with this product at 2.5 µg/ml.



Western Blotting

Image 2. Western blot analysis of TTBK1 in Jurkat lysate with this product at 1 µg/ml.