

TTBK1 recombinant protein

TTBK1, Active

CATALOG # AAA74062	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

TTBK1; Active; BDTK; RP3-330M21.4; TTBK1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for TTBK1 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for TTBK1 recombinant protein	Recombinant human TTBK1 (1-479) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The TTBK1 gene accession number is NM_032538. TTBK1 or tau-tubulin kinase 1 is a recently discovered brain-specific protein kinase involved in tau phosphorylation at Alzheimer's disease-related sites. Two single nucleotide polymorphisms have been observed in the TTBK1 gene and these may play an important role in the pathogenesis of sporadic late-onset Alzheimer's disease (1). TTBK1 levels are upregulated in brains of human Alzheimer' disease (AD) patients compared with age-matched non-AD controls (2). Overexpression of TTBK1 in transgenic mice leads to increased phosphorylation-related neurofilament aggregation which results in significant age-dependent memory impairment.
Product Categories/Family for TTBK1 recombinant protein	Protein Kinases ; Invasion/Metastasis ; Neurobiology ; p38 Pathway ; Ser/Thr Kinases
References	1. Yu, N N. et al: Tau-tubulin kinase-1 gene variants are associated with Alzheimer's disease in Han Chinese. <i>Neurosci Lett.</i> 2011 Mar 10;491(1):83-6. 2. Sato, S. et al: Spatial learning impairment, enhanced CDK5/p35 activity, and downregulation of NMDA receptor expression in transgenic mice expressing tau-tubulin kinase 1. <i>J Neurosci.</i> 2008 Dec 31;28(53):14511-21.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_032538
Molecular Weight	~96kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ttbk1-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74062>