

Mouse Tau-Tubulin Kinase 1 (TTBK1) ELISA Kit | TTBK1 elisa kit

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CATALOG #
AAA332064

REACTIVITY
Mouse

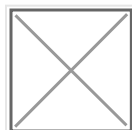
PRODUCT SYNONYMS

Tau-Tubulin Kinase 1 (TTBK1); Mouse Tau-Tubulin Kinase 1 (TTBK1) ELISA Kit; TTBK1; BDTK; KIAA1855; RP3-330M21.4; brain-derived tau kinase; TTBK1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Tau-tubulin kinase 1 (TTBK1) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse TTBK1. No significant cross-reactivity or interference between Mouse TTBK1 and analogues was observed.
Sequence Length	1308
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Tau-tubulin kinase 1 (TTBK1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TTBK1 elisa kit	Description: This Mouse Tau-tubulin kinase 1 (TTBK1) ELISA Kit employs a two-site sandwich ELISA to quantitate TTBK1 in samples. An antibody specific for TTBK1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TTBK1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TTBK1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TTBK1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TTBK2 produces a 5.6-kb transcript in which the longest open reading frame is 3,732 nucleotides, encoding a protein of 1,244 amino acids. The gene is alternatively spliced, with ubiquitous expression in human adult and fetal tissues. The N-terminus of TTBK2 encodes a serine-threonine-tyrosine kinase domain, and a C-terminal region shows homology to TTBK1. TTBK2 was expressed in all brain regions in human, rat, and mouse tissue. There was particularly high expression in Purkinje cells of the cerebellum, granular cell layer, hippocampus, midbrain, and substantia nigra. Lower expression was seen in the cortex of human, rat, and mouse brains.² TTBK2 phosphorylation sites in tau (ser208 and ser210) are priming sites for the phosphorylation of tau by GSK-3-beta, which influences tau pathology.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	242247093
NCBI GeneID	106763
NCBI Accession #	NP_001156336.1
NCBI GenBank Nucleotide #	NP_001156336.1
UniProt Accession #	Q6PCN3
NCBI Official Full Name	tau-tubulin kinase 1
NCBI Official Synonym Full Names	tau tubulin kinase 1
NCBI Official Symbol	Ttbk1
NCBI Official Synonym Symbols	AU017937; AW048023; C330008L01Rik
NCBI Protein Information	tau-tubulin kinase 1
UniProt Protein Name	Tau-tubulin kinase 1
UniProt Gene Name	Ttbk1
UniProt Entry Name	TTBK1_MOUSE

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.