

Active Recombinant Human TTK, GST-tagged

Cat. No. TTK-1503H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TTK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	Full length
Description	TTK is a serine/threonine kinase that has been implicated in the regulation of centrosome duplication and mitotic checkpoint response. Overexpressing of dominant-negative TTK in human cell lines prevents centrosome duplication while active TTK accelerates centrosome reduplication in an osteosarcoma cell line. Disruption of TTK function leads to a combination of severe mitotic abnormalities and failure in centrosome duplication. TTK is required for stabilization and activation of p53 during spindle disruption. TTK phosphorylates the N-terminal domain of p53 at Thr18, and this phosphorylation disrupts the interaction with MDM2 and abrogates MDM2-mediated p53 ubiquitination.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	19 nmol/min/mg
Molecular Mass	~130 kDa

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Purity	>75%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	TTK TTK protein kinase [Homo sapiens]
Official Symbol	TTK
Synonyms	TTK; TTK protein kinase; dual specificity protein kinase TTK; cancer/testis antigen 96; CT96; MPS1L1; monopolar spindle 1-like 1; phosphotyrosine picked threonine kinase; phosphotyrosine picked threonine-protein kinase; ESK; PYT; MPS1; FLJ38280;
Gene ID	7272
mRNA Refseq	NM_003318
Protein Refseq	NP_003309
MIM	604092
UniProt ID	P33981
Chromosome	6q13-q21

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Location	
Pathway	Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem;
Function	ATP binding; binding; nucleotide binding; protein serine/threonine kinase activity; protein serine/threonine/tyrosine kinase activity; protein tyrosine kinase activity;

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