

TTK recombinant protein

TTK, Active

CATALOG # AAA74065	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

TTK; Active; ESK; PYT; MPS1; MPS1L1; FLJ38280; TTK 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 TTK 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 TTK recombinant protein	Recombinant full-length human TTK was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_003318. 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 (1). 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 (2).
Product Categories/Family for TTK recombinant protein	Protein Kinases; Cancer; Cell Cycle; Cytoplasmic Tyrosine Kinases; Ser/Thr Kinases

References

- 1.Fisk H A, et al: Human Mps1 protein kinase is required for centrosome duplication and normal mitotic progression. Proc. Nat. Acad. Sci. 100: 14875-14880, 2003.
- 2.Huang Y F, et al: TTK/hMps1 mediates the p53-dependent postmitotic checkpoint by phosphorylating p53 at Thr18. Mol Cell Biol. 2009 Jun;29(11):2935-44.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_003318](#)

Molecular Weight

~130kDa

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/ttk-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74065>