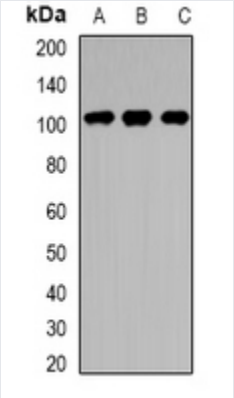
TTK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TTK, Polyclonal Antibody
Full Product Name	Anti-TTK Antibody
Product Gene Name	anti-TTK antibody
Product Synonym Names	MPS1; MPS1L1; Dual specificity protein kinase TTK; Phosphotyrosine picked threonine-protein kinase; PYT
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of TTK protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	93,539 Da
3D Structure	ModBase 3D Structure for P33981
Immunogen	Recombinant full length protein of human TTK
Applications Tested/Suitable for anti-TTK antibody	Western Blot (WB)
Application Notes for anti-TTK antibody	Western Blot: 1/500 - 1/2000
Related Product Information for anti-TTK antibody	MBS8247714 is an antibody targeting TTK. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to TTK
Other Notes	Small volumes of anti-TTK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-TTK antibody
Western blot analysis of TTK expression in U251 (A), mouse testis (B), mouse spleen (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TTK. It may not necessarily be applicable to this product.

NCBI GI #	262399361
NCBI GeneID	7272
NCBI Accession #	NP_001160163.1
UniProt Primary Accession #	P33981
UniProt Secondary Accession #	P35761
UniProt Related Accession #	P33981
GenBank Nucleotide #	NM_001166691.1
NCBI Official Full Name	dual specificity protein kinase TTK isoform 2
NCBI Official Synonym Full Names	TTK protein kinase
NCBI Official Symbol	TTK
NCBI Official Synonym Symbols	ESK; PYT; CT96; MPH1; MPS1; MPS1L1
UniProt Protein Name	Dual specificity protein kinase TTK
UniProt Synonym Protein Names	ESK; PYT
Protein Family	Dual specificity protein kinase
UniProt Gene Name	Ttk
UniProt Synonym Gene Names	Esk
UniProt Entry Name	TTK_MOUSE
NCBI Protein Information	dual specificity protein kinase TTK
NCBI Summary for TTK	This gene encodes a dual specificity protein kinase with the ability to phosphorylate tyrosine, serine and threonine. Associated with cell proliferation, this protein is essential for chromosome alignment at the centromere during mitosis and is required for centrosome duplication. It has been found to be a critical mitotic checkpoint protein for accurate segregation of chromosomes during mitosis. Tumorigenesis may occur when this protein fails to degrade and produces excess centrosomes resulting in aberrant mitotic spindles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2009]
UniProt Comments for TTK	TTK: a dual-specificity protein kinase orthologous to the yeast monopolar spindle (Mps1) kinase that is required for spindle pole duplication and the spindle checkpoint but not for centrosome duplication. Localized to centrosomes, kinetochores and nuclear pores. Its enzymatic activity is required for the recruitment of Mad1, Mad2, Bub1 and Bub3 to the kinetochore. Mps1 mRNA levels change little throughout the cell cycle, but its protein expression varies during the cell cycle. Overexpression arrests cells in metaphase by activating the checkpoint. Protein type: EC 2.7.12.1; Protein kinase, dual-specificity (non-receptor); Kinase, protein; Protein kinase, Other; Cancer Testis Antigen (CTA); Other group; TTK family Cellular Component: membrane
Research Articles on TTK	**1.** TTK contributes to hepatocellular carcinoma tumorigenesis via promoting cell proliferation and migration
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