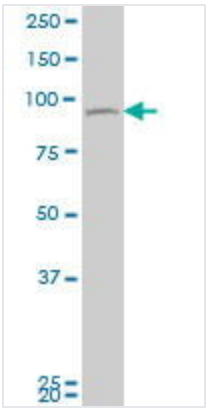
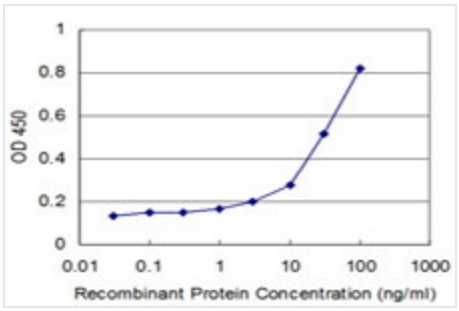
# TTK Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | TTK, Monoclonal Antibody |
| **Full Product Name** | TTK (TTK Protein Kinase, ESK, FLJ38280, MPS1, MPS1L1, PYT) (PE) |
| **Product Gene Name** | anti-TTK antibody |
| **Product Synonym Names** | TTK Protein Kinase; ESK; FLJ38280; MPS1; MPS1L1; PYT |
| **Clonality** | Monoclonal |
| **Isotype** | IgG2a,k |
| **Clone Number** | 4G9 |
| **Host** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified |
| **Specificity** | Recognizes TTK. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Immunogen** | TTK (AAH00633, 1aa-176aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD. |
| **Immunogen Sequence** | MESEDLSGRELTIDSIMNKVRDIKNKFKNEDLTDELSLNKISADTTDNSGTVNQIMMMANNPEDWLSLLLKLEKNSVPLSDALLNKLIGRYSQAIEALPPDKY |
| **Conjugate** | PE |
| **Product Categories/Family for anti-TTK antibody** | Antibodies; Protein Kinases |
| **Applications Tested/Suitable for anti-TTK antibody** | Western Blot (WB) |
| **Application Notes for anti-TTK antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-TTK antibody** | MBS6184503 is an antibody targeting TTK. Also known as TTK (TTK Protein Kinase, ESK, FLJ38280, MPS1, MPS1L1, PYT) (PE). Host: Mouse. Mous |
| **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 necessar products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-TTK antibody**
TTK monoclonal antibody (M02), clone 4G9 Western Blot analysis of TTK expression in Jurkat (Cat # L017V1).




**Testing Data of anti-TTK antibody**
Detection limit for recombinant GST tagged TTK is approximately 0.3ng/ml as a capture antibody.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 12653697 |
| **NCBI GeneID** | 7272 |
| **NCBI Accession #** | AAH00633 |
| **UniProt Related Accession #** | P33981 |
| **NCBI Official Full Name** | TTK protein kinase |
| **NCBI Official Synonym Full Names** | TTK protein kinase |
| **NCBI Official Symbol** | TTK |
| **NCBI Official Synonym Symbols** | ESK; PYT; CT96; MPH1; MPS1; MPS1L1 |
| **Protein Family** | Dual specificity protein kinase |
| **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] |
| **Research Articles on TTK** | **1.** A helical fragment within the kinetochore-targeting N-terminal extension (NTE) module of MPS1 is required for interactions with kinetochores and forms intramolecular interactions with its adjacent tetratricopeptide repeat (TPR) domain. |
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