# Thymidine Kinase (TK) ELISA Kit for Rabbit

## PRODUCT OVERVIEW

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| **Product Name** | Thymidine Kinase (TK), ELISA Kit |
| **Full Product Name** | Rabbit Thymidine Kinase ELISA Kit |
| **Product Gene Name** | TK elisa kit |
| **Species Reactivity** | Rabbit |
| **Assay Type** | Sandwich |
| **Preparation and Storage** | Store all reagents at 2-8 degree C |
| **Molecular Weight** | 25,776 Da |
| **Chromosome Location** | Chromosome: 11; NC_000077.6 (117815519..117826014, complement). Location: 11 E1-E2; 11 82.96 cM |
| **3D Structure** | ModBase 3D Structure for P04184 |
| **Related Product Information for TK elisa kit** | MBS042902 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Thymidine Kinase (TK) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TK. The ELISA analytical biochemical technique of the MBS042902 kit is based on TK antibody-TK antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TK antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TK. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%). |
| **Other Notes** | Small volumes of TK elisa kit 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. |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 202079 |
| **NCBI GeneID** | 21877 |
| **NCBI Accession #** | AAA40454.1 |
| **UniProt Primary Accession #** | P04184 |
| **UniProt Secondary Accession #** | Q58EU0; Q8C3P8; Q921J8 |
| **UniProt Related Accession #** | P04184 |
| **NCBI Official Full Name** | thymidine kinase |
| **NCBI Official Synonym Full Names** | thymidine kinase 1 |
| **NCBI Official Symbol** | Tk1 |
| **NCBI Official Synonym Symbols** | Tk-1; Tk1a; Tk1b; D530002A18Rik |
| **UniProt Protein Name** | Thymidine kinase, cytosolic |
| **Protein Family** | Class II receptor tyrosine kinase |
| **UniProt Gene Name** | Tk1 |

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| **UniProt Synonym Gene Names** | Tk-1 |
| **UniProt Entry Name** | KITH_MOUSE |
| **NCBI Protein Information** | thymidine kinase, cytosolic |
| **UniProt Comments for TK** | TK: cytosolic thymidine kinase. Phosphorylated during mitosis. Its enzymatic activity is high in proliferating cells and peaks during the S-phase of the cell cycle; it is very low in resting cells.<br><br>Protein type: Kinase, other; EC 2.7.1.21; Nucleotide Metabolism - pyrimidine; Xenobiotic Metabolism - drug metabolism - other enzymes<br><br>Cellular Component: cytoplasm<br><br>Molecular Function: transferase activity; identical protein binding; nucleoside kinase activity; zinc ion binding; metal ion binding; nucleotide binding; thymidine kinase activity; kinase activity; ATP binding<br><br>Biological Process: nucleotide biosynthetic process; thymidine metabolic process; phosphorylation; deoxyribonucleoside monophosphate biosynthetic process; protein homotetramerization |
| **Research Articles on TK** | **1.** The down-regulation of Tk1 activity unmasks Tk2 deficiency in Tk2-/- mice and correlates with the onset of mtDNA depletion in the brain and the heart. |
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