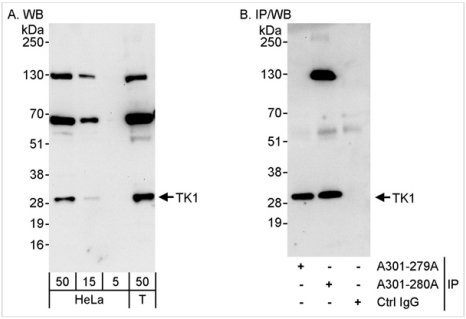
TK1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TK1, Polyclonal Antibody
Full Product Name	Rabbit anti-TK1 Antibody, Affinity Purified
Product Gene Name	anti-TK1 antibody
Product Synonym Names	thymidine kinase, cytosolic; thymidine kinase 1 soluble isoform; epididymis secretory sperm binding protein; TK2; Thymidine kinase, cytosolic; thymidine kinase 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
OMIM	188300
3D Structure	ModBase 3D Structure for P04183
Immunogen	Between 184 and C-terminus
Conjugation	Unconjugated
Product Categories/Family for anti-TK1 antibody	Primary Antibodies
Applications Tested/Suitable for anti-TK1 antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-TK1 antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate
Related Product Information for anti-TK1 antibody	Thymidine kinase 1 (TK1) catalyzes the phosphorylation of thymidine to maintain dTTP in the cell for DNA replication and repair. The salvage of thymidine by TK1 is cell-cycle regulated and important to genomic stability. TK1 is a phosphoprotein and exists in a dimeric or tetrameric form. Phosphorylation of TK1 may be important to its quaternary structure and the regulation of its catalytic activity.
Other Notes	Small volumes of anti-TK1 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.
Searchable Terms for TK1 purchase	MBS3901784 is an antibody targeting TK1. Also known as Rabbit anti-TK1 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-TK1 antibody
Detection of human TK1 by western blot and immunoprecipitation. Samples: Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) and HEK293T (T; 50 ug) cells. Antibodies: Affinity purified rabbit anti-TK1 antibody MBS3901784 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate. TK1 was also immunoprecipitated by rabbit anti-TK1 antibody MBS3901783, which recognizes an upstream epitope. Detection: Chemiluminescence with exposure times of 30 seconds (A and B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TK1. It may not necessarily be applicable to this product.

NCBI GeneID	7083
NCBI Accession #	NP_003249.1
UniProt Primary Accession #	P04183
UniProt Protein Name	Thymidine kinase, cytosolic
Protein Family	Thymidine kinase
UniProt Gene Name	TK1
UniProt Entry Name	KITH_HUMAN
UniProt Comments for TK1	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. Protein type: Nucleotide Metabolism - pyrimidine; EC 2.7.1.21; Xenobiotic Metabolism - drug metabolism - other enzymes; Kinase, other Chromosomal Location of Human Ortholog: 17q23.2-q25.3 Cellular Component: cytosol Molecular Function: identical protein binding; nucleoside kinase activity; zinc ion binding; thymidine kinase activity; ATP binding Biological Process: response to nutrient levels; skeletal muscle cell proliferation; nucleobase, nucleoside and nucleotide metabolic process; response to toxin; liver development; fetal process involved in parturition; deoxyribonucleoside monophosphate biosynthetic process; protein homotetramerization; response to cortisol stimulus; pyrimidine base metabolic process; gut development; response to copper ion; nucleotide biosynthetic process; nucleobase, nucleoside, nucleotide and nucleic acid metabolic process; thymidine metabolic process; pyrimidine nucleoside salvage; phosphorylation
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