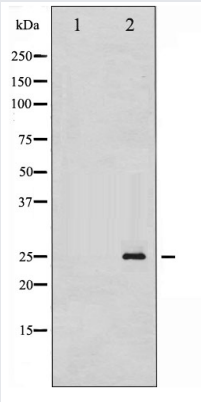
TK Antibody

PRODUCT OVERVIEW

Product Name	TK, Antibody
Full Product Name	Phospho-TK (Ser13) Antibody
Product Gene Name	anti-TK antibody
Product Synonym Names	EC 2.7.1.21; KITH; TK-1; TK1; Thymidine kinase; cytosolic
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Phospho-TK (Ser13) Antibody detects endogenous levels of TK only when phosphorylated at Serine 13
Preparation and Storage	Store at -20°C for 1 year.
Molecular Weight	25kDa
OMIM	188300
3D Structure	ModBase 3D Structure for P04183
Immunogen	A synthesized peptide derived from human TK around the phosphorylation site of Serine 13
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TK antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-TK antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-TK antibody	TK is a 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.
Other Notes	Small volumes of anti-TK 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 TK purchase	MBS8511252 is an antibody targeting TK. Also known as Phospho-TK (Ser13) Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-TK antibody
Western blot analysis of TK phosphorylation expression in paclitaxel treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

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

NCBI GI #	164698438
NCBI GeneID	7083
NCBI Accession #	NP_003249.3
UniProt Primary Accession #	P04183
UniProt Secondary Accession #	Q969V0; Q9UMG9; B2RC58
UniProt Related Accession #	P04183
GenBank Nucleotide #	NM_003258.4
NCBI Official Full Name	thymidine kinase, cytosolic isoform 1
NCBI Official Synonym Full Names	thymidine kinase 1
NCBI Official Symbol	TK1
NCBI Official Synonym Symbols	TK2
UniProt Protein Name	Thymidine kinase, cytosolic
Protein Family	Class II receptor tyrosine kinase
UniProt Gene Name	TK1
NCBI Protein Information	thymidine kinase, cytosolic
NCBI Summary for TK	The protein encoded by this gene is a cytosolic enzyme that catalyzes the addition of a gamma-phosphate group to thymidine. This creates dTMP and is the first step in the biosynthesis of dTTP, which is one component required for DNA replication. The encoded protein, whose levels fluctuate depending on the cell cycle stage, can act as a low activity dimer or a high activity tetramer. High levels of this protein have been used as a biomarker for diagnosing and categorizing many types of cancers. [provided by RefSeq, Oct 2016]
UniProt Comments for TK	MiscellaneousTwo forms have been identified in animal cells, one in cytosol and one in mitochondria. Activity of the cytosolic enzyme is high in proliferating cells and peaks during the S-phase of the cell cycle; it is very low in resting cells.
Research Articles on TK	**1.** The detection of TK1 combined with that cytokeratin-19 fragment (CYFRA21-1), CEA or NSE increased the diagnostic value of TK1 for lung squamous cell carcinoma, adenocarcinoma and small cell lung cancer, respectively.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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