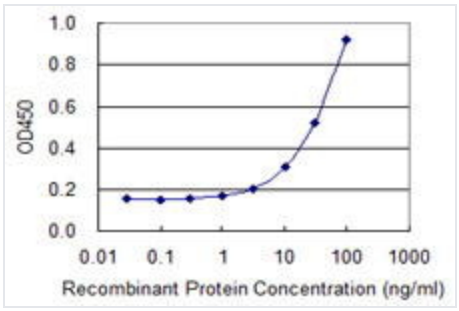
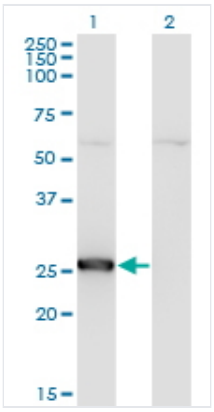
TK1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TK1, Monoclonal Antibody
Full Product Name	TK1 (Thymidine Kinase 1, Soluble, TK2) (HRP)
Product Gene Name	anti-TK1 antibody
Product Synonym Names	Thymidine Kinase 1; Soluble; TK2
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1D10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes TK1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial afte
Immunogen	TK1 (AAH07986.1, 1aa-234aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MSCINLPTVLPGSPSKTRGQIQVILGPMFSGKSTELMRRVRRFQIAQYKCLVIKYAKDTRYSSSFCTHDRNTMEALPACLLRDVAQEALGVAVIGIDEGQFF
Conjugate	HRP
Product Categories/Family for anti-TK1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-TK1 antibody	Western Blot (WB)
Application Notes for anti-TK1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TK1 antibody	MBS6181607 is an antibody targeting TK1. Also known as TK1 (Thymidine Kinase 1, Soluble, TK2) (HRP). Host: Mouse.
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 necessar



Testing Data of anti-TK1 antibody
Detection limit for recombinant GST tagged TK1 is 1 ng/ml as a capture antibody.



Western Blot (WB) of anti-TK1 antibody
Western Blot analysis of TK1 expression in transfected 293T cell line by TK1 monoclonal antibody (M04), clone 1D10.Lane 1: TK1 transfected lysate (25.5 KDa).Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

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

NCBI GI #	14124928
NCBI GeneID	7083
NCBI Accession #	AAH07986.1
UniProt Related Accession #	P04183
NCBI Official Full Name	TK1 protein
NCBI Official Synonym Full Names	thymidine kinase 1
NCBI Official Symbol	TK1
NCBI Official Synonym Symbols	TK2
Protein Family	Thymidine kinase
NCBI Protein Information	thymidine kinase, cytosolic
NCBI Summary for TK1	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]
Research Articles on TK1	**1.** Study demonstrates that, in plasma-derived exosomes, increase in TK1 and CDK9 mRNA copies is associated with clinical resistance of metastatic breast cancer to palbociclib.
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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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/tk1/6181607