TK1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TK1, Monoclonal Antibody
Full Product Name	TK1 (Thymidine Kinase 1, Soluble, TK2) (MaxLight 405)
Product Gene Name	anti-TK1 antibody
Product Synonym Names	Thymidine Kinase 1; Soluble; TK2
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	3F9
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes TK1.
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 prior to removing the cap.
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	MaxLight405
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	MBS6198337 is an antibody targeting TK1. Also known as TK1 (Thymidine Kinase 1, Soluble, TK2) (MaxLight 405). Host: Mouse. Mouse monoclonal a
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

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.
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