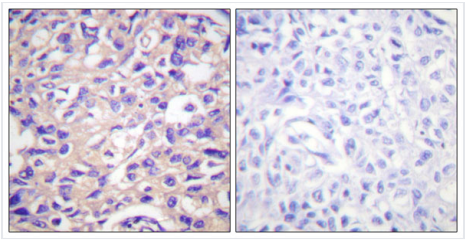
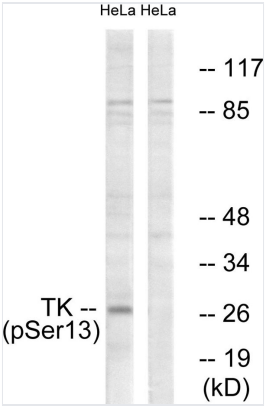
TK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TK, Polyclonal Antibody
Full Product Name	TK (Phospho-Ser13) Antibody
Product Gene Name	anti-TK antibody
Product Synonym Gene Name	TK1
Product Synonym Names	KITH; TK-1; TK1; Thymidine kinase; cytosolic
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using phospho peptide. The antibody against non-phospho peptide was removed by chromatography using corresponding non-phospho peptide.
Concentration	1 mg/ml (lot specific)
Specificity	TK (Phospho-Ser13) Antibody detects endogenous levels of TK only when phosphorylated at Ser13.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	25 kDa
OMIM	K02581 mRNA
3D Structure	ModBase 3D Structure for P04183
Target Modification	Phospho
Modification Sites	H:S13; M:S13; R:S13
Immunogen	The antiserum was produced against synthesized peptide derived from human TK around the phosphorylation site of Ser13.
Immunogen Range	Jan-50
Applications Tested/Suitable for anti-TK antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-TK antibody	WB: 1:500~1:1000 IHC: 1:50~1:100 ELISA: 1:5000
Related Product Information for anti-TK antibody	MBS9502556 is an antibody targeting TK. Also known as TK (Phospho-Ser13) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Immunohistochemistry (IHC) of anti-TK antibody
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using TK (Phospho-Ser13) Antibody. The picture on the right is blocked with the phospho peptide.



Western Blot (WB) of anti-TK antibody
Western blot analysis of lysates from HeLa cells treated with paclitaxel 1uM 24h, using TK (Phospho-Ser13) Antibody. The lane on the right is blocked with the phospho 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 results have implications for the mechanism by which Fhit regulates TK1 mRNA, and more broadly, for its modulation of multiple functions as tumor suppressor/genome caretaker.

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