e at -20C	Thymidine Kinase 1 Antibody		Cell Signaling TECHNOLOGY®	
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com	
0		Support:	877-678-TECH (8324)	
#8960		Web:	info@cellsignal.com cellsignal.com	
-11-		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 26	Source: Rabbit	UniProt ID: #P04183	Entrez-Gene Id: 7083		
Product Usage Information	W	pplication lestern Blotting nmunoprecipitation			<b>Dilution</b> 1:1000 1:50			
Storage		pplied in 10 mM sodiu °C. Do not aliquot the		), 150 mM NaCl, 10	0 μg/ml BSA and 50% g	lycerol. Store at –		
Specificity / Sensitivity		Thymidine Kinase 1 Antibody recognizes endogenous levels of total TK1 protein. This antibody does not cross-react with TK2 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly213 of human TK1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	rip thy and TK: to p reg rem hov (6). apc exp incr var erences 1. A 2. N 3. E 4. L 5. C 6. C 7. H 8. F 9. C 10. K 11. X	hosphate (dTTP) by c midine (T) in the cell. d mitochondrial thymic 1 expression and activ beak levels in S-phase julated via phosphoryl nains elusive (5). The wever, recent studies . Genotoxic stress pro optosis and enhanced pression and activity a	catalyzing the phose There are two kno- dine kinase 2 (TK2 vity is regulated in the before being deg lation of TK1 at Se se observations inc- have shown that T motes increased T I DNA repair efficie the upregulated dur of TK1 correlate wite at tumors (7-12). (2012) Cancer Le 2010) Nucleosides Cell Res 89, 263-7 Biochim Biophys A 18) J Biol Chem 27 (1993) Cancer Bion J Cancer Res Clim Int J Clin Oncol 15 2010) Am J Clin Pa mour Biol 33, 475-4	photransfer of phos wn thymidine kinase ) (1,2). Unlike TK2, ' a cell cycle-dependi raded prior to cell di r13 by Cdc2 and/or dicate that TK1 migh K1 plays a more sig 'K1 expression and ncy (6). More impor ing neoplasia and of th poor prognosis ar <i>tt</i> 316, 6-10. <i>Nucleotides Nucleic</i> 'A. <i>Cata</i> 114, 398-403. 3, 12095-100. , 27327-35. ther 8, 189-97. 'Oncol 136, 1193-9 , 359-68. athol 134, 472-7. 33.		ythymidine (dT) and e kinase 1 (TK1) by the cell cycle, ng during G1-phase t not activity, may be ode of regulation cell proliferation; damage response in reduced cellular s show that TK1 umans, and		
Species Reactivit	y Spe	cies reactivity is deter	mined by testing ir	n at least one appro	ved application (e.g., we	stern blot).		
Western Blot Buf		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key		B: Western Blotting IP:	: Immunoprecipitat	ion				
<b>Cross-Reactivity</b>	Кеу							

1/1/24, 1:05 PM	<ul> <li>Thymidine Kinase 1 Antibody (#8960) Datasheet Without Images Cell Signaling Technology</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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