e at -20C	PBK/TOPK Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
t2		Support:	877-678-TECH (8324)	
492		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

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

Applications: WB, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 40	Source: Rabbit	UniProt ID: #Q96KB5	Entrez-Gene Id: 55872		
Product Usage	Арр	lication			D	ilution		
Information	Wes	stern Blotting			1	:1000		
	Imm	unohistochemistry	(Paraffin)		1	:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitiv	r <b>ity</b> PBK/	PBK/TOPK Antibody detects endogenous levels of total PBK/TOPK protein.						
Source / Purification	amin	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids at the carboxy-terminus of human PBK/TOPK. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	comp with t prolif differ obse	PBK/TOPK is a serine/threonine kinase that is phosphorylated and active during mitosis (1). PBK/TOPK is composed of kinase subdomains and a carboxy-terminal PDZ-Binding domain, which is thought to interact with the tumor suppressor protein hDlg (1). Increased PBK/TOPK expression has been observed in highly proliferative malignant cell lines, and PBK/TOPK expression is strongly downregulated during terminal differentiation of HL-60 leukemic cells (2,3). PMA-induced kinase activity toward PBK/TOPK has been observed (4), and cdc2/cyclinB has been shown to phosphorylate PBK/TOPK in vitro, presumably at Thr9 (1). Potential substrates of PBK/TOPK include p38 MAPK and c-Myc (3,4).						
Background Referer	2. Sir 3. Na 4. Ab	<ol> <li>Gaudet, S. et al. (2000) <i>Proc. Natl. Acad. Sci. U S A</i> 97, 5167-5172.</li> <li>Simons-Evelyn, M. et al. (2001) <i>Blood Cells Mol. Dis.</i> 27, 825-829.</li> <li>Nandi, A. et al. (2004) <i>Blood Cells Mol. Dis.</i> 32, 240-245.</li> <li>Abe, Y. et al. (2000) <i>J. Biol. Chem.</i> 276, 21525-21531.</li> <li>Matsumoto, S. et al. (2004) <i>Biochem Biophys Res Commun.</i> 325, 997-1004.</li> </ol>						
Species Reactivity	Specie	es reactivity is dete	rmined by testing ir	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buffer		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	WB:	Western Blotting II	IC-P: Immunohisto	chemistry (Paraffin)				
Cross-Reactivity Ke	X: Xe	<ul> <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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