Revision 1		
Phospho-PKM2 (Tyr105) Antibody	Ce T E	CHNOLOGY®
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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #P14618	Entrez-Gene Id: 5315	
Product Usage Information	e	Application Western Blotting			Dilution 1:1000		
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/Se	ecificity/Sensitivity Phospho-PKM2 (Tyr105) Antibody detects endogenous levels of PKM2 protein only when phosphorylated at Tyr105. This antibody may slightly cross react with PKM1 phosphorylated at the equivalent site.						
Source / Purif	ication	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence surrounding Tyr105 of human PKM2 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		pyruvate. In mammal (PKM2) is an alternativ Research studies four for aerobic glycolysis isoform to the M1 iso These cells also show PKM2 is not essential the non-proliferative t Additional studies sho thereby inhibit the for cancer cells results in proliferation during h	s, the M1 isoform (vely spliced variant d that cancer cells in tumors, known a form, aerobic glycc decreased tumoric for all tumor cells (tumor cell populati ow that the oncoge mation of active, to the replacement o' ypoxia and tumor o	at catalyses the conversi PKM1) is expressed in mi- of M1 that is expressed exclusively express PKM is the Warburg effect (1). lysis is reduced and oxid enicity in mouse xenogr 4). In the tumor model s on and inactive in the pro- nic forms of FGFR1 direc- etrameric PKM2 (5). A PK f Tyr105 by phenylalanin growth in nude mice xen ritical switch for the met	ost adult tissues (1) during embryonic (2 (1-3). PKM2 is sho When cancer cells lative phosphorylat afts (1). Recent stuu tudied, PKM2 was f oliferative tumor ce tly phosphorylate T M2 missense muta e and leads to redu ografts (5). These fi	The M2 isoform development (1). wm to be essential switch from the M2 ion is increased (1). dies showed that ound to be active in Il population (4). yr105 of PKM2 and tion found in ced cell ndings suggest	
Background R	References		LC-MS/MS platforn . (2008) <i>Nature</i> 452 .005) <i>Semin Cancer</i> et al. (2005) <i>Bioche</i> . (2013) <i>Cell</i> 155, 39	<i>Biol</i> 15, 300-8. <i>mistry</i> 44, 9417-29. 7-409.) using	
Species React	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot	Buffer		NT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X Tween® 20 at 4°C with gentle shaking, overnight.				
Applications k	Key	W: Western Blotting					
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Mk: Monkey					
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