PKM2 (D78A4) XP® Rabbit mAb (HRP Conjugate)
 Image: Cell Signaling December 2000 (Conjugate)

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	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 60	Source/Isotype: Rabbit IgG	UniProt ID: #P14618	Entrez-Gene Id: 5315	
Product Usage Information		blication stern Blotting			<b>Dilution</b> 1:1000		
Storage			d in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and /cerol. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitiv	- 2	PKM2 (D78A4) $XP^{\otimes}$ Rabbit mAb detects endogenous levels of total PKM2 protein and does not cross-react with PKM1.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the sequence of human PKM2.					
Product Description	pero	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated PKM2 (D78A4) XP <sup>®</sup> Rabbit mAb #4053.					
MW (kDa)					60		
Background	In ma altern found glycc M1 is show for a	Pyruvate kinase is a glycolytic enzyme that catalyses the conversion of phosphoenolpyruvate to pyruvate. In mammals, the M1 isoform (PKM1) is expressed in most adult tissues (1). The M2 isoform (PKM2) is an alternatively spliced variant of M1 that is expressed during embryonic development (1). Research studies found that cancer cells exclusively express PKM2 (1-3). PKM2 is shown to be essential for aerobic glycolysis in tumors, known as the Warburg effect (1). When cancer cells switch from the M2 isoform to the M1 isoform, aerobic glycolysis is reduced and oxidative phosphorylation is increased (1). These cells also show decreased tumorigenicity in mouse xenografts (1). Recent studies showed that PKM2 is not essential for all tumor cells (4). In the tumor model studied, PKM2 was found to be active in the non-proliferative tumor cell population and inactive in the proliferative tumor cell population (4).					
Background Referen	2. Ma 3. Do	nristofk, H.R. et al. ( azurek, S. et al. (20 ombrauckas, J.D. e aelsen, W.J. et al. (	05) Semin Cance t al. (2005) Bioch	er Biol 15, 300-8. 1990 emistry 44, 9417-29.			
Species Reactivity	Speci	es reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				% w/v BSA, 1X TBS,	
Applications Key	WB:	WB: Western Blotting					
Cross-Reactivity Key	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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Limited Uses							

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