## Hexokinase II (C64G5) Rabbit mAb





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Applications: W, W-S	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 102	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P52789	Entrez-Gene Id: 3099		
Product Usage Information	e	<b>Application</b> Western Blotting Simple Western™			<b>Dilution</b> 1:1000 1:10 - 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
				s endogenous levels of total hexokinase II protein. This ecific protein at 125 kDa in certain models.				
<b>Source / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic per sequence of human hexokinase II.				synthetic peptide co	prresponding to the			
Background		Hexokinase catalyzes the conversion of glucose to glucose-6-phosphate, the first step in glycolysis. Four distinct mammalian hexokinase isoforms, designated as hexokinase I, II, III, and IV (glucokinase), have been identified. Hexokinases I, II, and III are associated with the outer mitochondrial membrane and are critical for maintaining an elevated rate of aerobic glycolysis in cancer cells (Warburg Effect) (1) in order to compensate for the increased energy demands associated with rapid cell growth and proliferation (2,3).						
Background R	eferences	1. WARBURG, O. (1956) <i>Science</i> 123, 309-14. 2. Semenza, G.L. (2000) <i>Crit Rev Biochem Mol Biol</i> 35, 71-103. 3. Smith, T.A. (2000) <i>Br J Biomed Sci</i> 57, 170-8.						
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	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 <b>k</b>	(ey	W: Western Blotting W-S: Simple Western™						
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Mk: Monkey						
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