PGD Antibody	С	ell Signaling
	Orders:	877-616-CELL (2355) orders@cellsignal.com
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<b>#13389</b>	Web:	info@cellsignal.com cellsignal.com
	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA
For Research Use Only. Not for Use in Diagnostic Procedures.		

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 49	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P52209	Entrez-Gene Id 5226		
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 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/Sens	sitivity	PGD Antibody recognizes endogenous levels of total PGD protein.						
Source / Purific	ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala300 of human PGD protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		6-phosphogluconate dehydrogenase (PGD or 6PGD) catalyzes the conversion of 6-phosphogluconate and NADP <sup>+</sup> to ribulose 5-phosphate and NADPH in the pentose phosphate pathway (1). Research studies show that knockdown of PGD results in the induction of senescence and inhibition of growth of lung cancer cells (2). Additional research suggests that PGD influences the migration of some cancer cells by regulating c-Met phosphorylation state (3). Furthermore, it was shown that the glycolytic enzyme PGAM1 substrate (3-phosphoglycerate) regulates the pentose phosphate pathway by deactivating PGD/6PGD (4).						
Background Re	ferences	1. Jonas, S.K. et al. (1992) <i>Br J Cancer</i> 66, 185-91. 2. Sukhatme, V.P. and Chan, B. (2012) <i>FEBS Lett</i> 586, 2389-95. 3. Chan, B. et al. (2013) <i>Biochem Biophys Res Commun</i> 439, 247-51. 4. Hitosugi, T. et al. (2012) <i>Cancer Cell</i> 22, 585-600.						
Species Reactiv	ity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	y	W: Western Blotting						
Cross-Reactivity	у Кеу	H: Human						
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