୍ଦୁ PHB1 Antibody	The second s	Cell Signaling TECHNOLOGY®		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
9	Support	:: 877-678-TECH (8324)		
#2426	Web:	info@cellsignal.com cellsignal.com		
#	3 Trask Lane   Danve	rs   Massachusetts   01923   USA		

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

	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 29	Source: Rabbit	UniProt ID: #P35232	Entrez-Gene Id: 5245	
Product Usage	Ар	Application Dilution					
Information	We	stern Blotting		1:1000			
	Imr	nunoprecipitation	ion 1:100				
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 / Sensitivi	ity PHE	1 Antibody detects e	ndogenous levels	levels of total PHB1 protein.			
Source / Purification	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser252 of human PHB1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	nucl cont extra com and regu	The prohibitins PHB1 and PHB2 are highly conserved, multifunctional proteins present in eukaryotic nuclear and mitochondrial compartments. PHB1 is a 30 kDa tumor suppressor protein involved in cell cycle control (1). PHB1 has been found in mitochondria, the nucleus, and the plasma membrane, as well as extracellularly in circulation (2). In mitochondria, prohibitins mainly exist as membrane-bound ring complexes and function as chaperones maintaining mitochondrial protein stability during protein synthesis and transportation (3,4). In the nucleus, prohibitins interact with transcription factors such as Rb and p53 to regulate target gene transcription (2,5). Extracellular prohibitin can bind and activate C3 to enhance complement activation (6).					
Background Referen	2. M 3. N 4. Ta 5. Fi	<ol> <li>McClung, J.K. et al. (1995) <i>Exp Gerontol</i> 30, 99-124.</li> <li>Mishra, S. et al. (2006) <i>J. Cell. Mol. Med.</i> 10, 353-363.</li> <li>Nijtmans, L.G. et al. (2000) <i>EMBO J.</i> 19, 2444-2451.</li> <li>Tatsuta, T. et al. (2005) <i>Mol. Biol. Cell</i> 16, 248-259.</li> <li>Fusaro, G. et al. (2003) <i>J. Biol. Chem.</i> 278, 47853-47861.</li> <li>Mishra, S. et al. (2007) <i>Mol. Immunol.</i> 44, 1907-1912.</li> </ol>					
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffer		DRTANT: For western Tween® 20 at 4°C v		te membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, aking, overnight.			
Applications Key	WB:	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity Key	<b>X:</b> Xe	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected					
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## PHB1 Antibody (#2426) Datasheet Without Images Cell Signaling Technology

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