BSP II Antibody		Cell Signaling	
Store at	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#5468	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

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

Applications: Re WB, IP	eactivity: Sensitivity: H M R Endogenous	<b>MW (kDa):</b> 82	Source: Rabbit	UniProt ID: #P21815	Entrez-Gene Id: 3381		
Product Usage Information	Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50			
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 / Sensitivit	ty The BSP II Antibody	The BSP II Antibody detects endogenous levels of total BSP II protein.					
Source / Purification	residues near the am	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human BSP II protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	is part of the small in cell to matrix adhesio BSP II also allows it t developing bone (3-5 breast cancer cells th suggests that the dow	Bone sialoprotein II (BSP II) exists as a secreted protein in extracellular matrix of the skeleton (1-2). BSP II is part of the small integrin binding ligand N-linked glycoprotein (SIBLING) family and its role is crucial for cell to matrix adhesion as well as between two active protein complexes (3). Flexible binding capacity of BSP II also allows it to rapidly associate with various proteins, calcium, and mineralized phases of developing bone (3-5). BSP II plays a central role in the initiation of hydroxyapatite microcalcification of breast cancer cells that contributes to the pathogenesis of bone metastasis (4,6,7). Recent evidence suggests that the downregulation of BSP II may lead to the reduced formation of metastatic lesions and bone metastasis in a human breast cancer model (5).					
Background Referenc	2. Bellahcène, A. et a 3. Fisher, L.W. et al. ( 4. Castronovo, V. and 5. Adwan, H. et al. (2 6. Diel, I.J. et al. (199	<ol> <li>Papagerakis, P. et al. (2002) <i>Bone</i> 30, 377-85.</li> <li>Bellahcène, A. et al. (1994) <i>Cancer Res</i> 54, 2823-6.</li> <li>Fisher, L.W. et al. (2001) <i>Biochem Biophys Res Commun</i> 280, 460-5.</li> <li>Castronovo, V. and Bellahcene, A. (1998) <i>Int J Oncol</i> 12, 305-8.</li> <li>Adwan, H. et al. (2004) <i>Cancer Gene Ther</i> 11, 109-20.</li> <li>Diel, I.J. et al. (1999) <i>Clin Cancer Res</i> 5, 3914-9.</li> <li>Sharp, J.A. et al. (1999) <i>Lab Invest</i> 79, 869-77.</li> </ol>					
Species Reactivity	Species reactivity is de	Species reactivity is determined by testing in at least one approved 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 Key	WB: Western Blotting	IP: Immunoprecipita	tion				
Cross-Reactivity Key	X: Xenopus Z: zebrafi	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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BSP II Antibody (#5468) Datasheet Without Images Cell Signaling Technology

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