	BCAR3 Antibody		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#24032		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers	Massachusetts 01923 USA	

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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 95	Source: Rabbit	UniProt ID: #O75815	Entrez-Gene Id: 8412		
Product Usage Information Storage		Application Western Blotting Immunoprecipitation Supplied in 10 mM sodiu	m HEPES (oH 7.5). 150 mM NaCl. 10	Dilution 1:1000 1:100 0 μg/ml BSA and 50% gl	vcerol. Store at –		
Storage		20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		BCAR3 antibody recognizes endogenous levels of total BCAR3 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro526 of human BCAR3 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		BCAR3 is a member of the novel SH2-containing protein (NSP) family (1). It was identified as a gene product involved in anti-estrogen resistance in the context of breast cancer (2). Like other members of this family, BCAR3 has been shown to interact with the family member, CAS. The C terminal Cdc25 homolgy domain of BCAR3 interacts tightly with the FAT domain of p130Cas (3) and promotes the association of p130cas with Src kinase (4) to activate related signaling pathways. Overexpression of BCAR3 leads to the activation of a wide range of downstream signaling proteins including PI3K, rac, PAK1, and cyclin D1 (5-7). The main role of BCAR3 is to promote cell motility and regulate cytoskeletal remodeling and adhesion through its effect on p130cas and Src kinase (8-10). BCAR3 also has been implicated in playing an inhibitory role on TGF-β/SMAD signaling, which is associated with favorable disease outcomes (11).						
Background References		Near, R.I. et al. (2007) 2. van Agthoven, T. et al. 3. Mace, P.D. et al. (2011 4. Makkinje, A. et al. (2013) 5. Cai, D. et al. (2003) <i>Ca</i> 5. Felekkis, K.N. et al. (2003) 7. Cai, D. et al. (2003) <i>J I</i> 8. Schuh, N.R. et al. (2014) 9. Wilson, A.L. et al. (2014) 9. Guo, J. et al. (2014) <i>Bi</i>	(1998) EMBO J 1 .) Nat Struct Mol E .2) J Biol Chem 28 ancer Res 63, 680 005) Mol Cancer F mmunol 170, 969 .0) J Biol Chem 28 3) PLoS One 8, e 9) Cell Signal 21,	7, 2799-808. Nol 18, 1381-7. 37, 27703-14. 2-8. Res 3, 32-41. -78. 35, 2309-17. 65678. 1423-35.				
Species Reactivity Western Blot Buffer		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
		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 Key Cross-Reactivity Key		VB: Western Blotting IP:	Immunoprecipitat	ion				
		 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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