Revision 1		
Phospho-(Ser/Thr) Akt Substrate Antibody	C C	ell Signaling
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com
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For	Research	Use On	ly. Not for	· Use in D	Plagnostic H	rocedures.	

Applications:ReactivityW, IP, IHC-P, E-PAll	r: Sensitivity: Endogenous	Source/Isotype: Rabbit	
Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry	(Paraffin)	Dilution 1:1000 1:50 1:500
	Peptide ELISA (DELFIA)	(raranni)	1:500
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/Sensitivity	Phospho-(Ser/Thr) Akt Substrate Antibody preferentially recognizes peptides and proteins containing phospho-Ser/Thr preceded by Lys/Arg at positions -5 and -3, in a manner largely independent of other surrounding amino acids. Some cross-reactivity is observed for peptides that contain phospho-Ser/Thr preceded by Arg/Lys at positions -3 and -2. No cross-reactivity is observed with the corresponding nonphosphorylated sequences or with other phospho-Ser/Thr-containing motifs. By ELISA, the antibody recognizes a wide range of phosphorylated Akt substrate peptides, and, by 2-D gel Western blot analysis, it recognizes a large number of proteins presumed to be Akt substrates.		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with phospho-Akt substrate peptides . Antibodies are purified by protein A and peptide affinity chromatography.		
Background	cAMP-dependent protei and RSK. These kinases phosphorylated Ser or T including cell growth an of Akt substrates are kn discovery. Akt phosphor positions -5 and -3 (6). P powerful tools for inves	nases, referred to as Arg-directed kinase n kinase (PKA), cGMP-dependent protei share a substrate specificity characteriz 'hr (1,2). Akt plays a central role in medi d survival, angiogenesis, and transcript own (such as GSK-3, Bad, and caspase-9 ylates substrates only at Ser/Thr in a co hospho-Akt substrate-specific antibodie tigating the regulation of phosphorylati igh throughput kinase drug discovery.	n kinase (PKG), protein kinase C, Akt, ed by Arg at position -3 relative to the ating critical cellular responses ional regulation (3-5). While a number many important substrates await nserved motif characterized by Arg at es from Cell Signaling Technology are
Background References	 Montminy, M. (1997) Annu Rev Biochem 66, 807-22. Pearson, R.B. and Kemp, B.E. (1991) Methods Enzymol 200, 62-81. Marte, B.M. and Downward, J. (1997) Trends Biochem Sci 22, 355-8. Jiang, B.H. et al. (2000) Proc Natl Acad Sci USA 97, 1749-53. Scheid, M.P. and Woodgett, J.R. (2000) Curr Biol 10, R191-4. Alessi, D.R. et al. (1996) FEBS Lett 399, 333-8. 		
Species Reactivity	Species reactivity is dete	ermined by testing in at least one appro	ved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) E-P: Peptide ELISA (DELFIA)		
Cross-Reactivity Key	All: All Species Expected	I	
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