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## Phospho-Akt Substrate (RXXS\*/T\*) (110B7E) Rabbit mAb (Sepharose<sup>®</sup> Bead Conjugate)



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

Applications: IP	<b>Reactivity:</b> All	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information		Application Immunoprecipitation	<b>Dilution</b> 1:20
Storage		Supplied in 10 mM sodium Do not aliquot the antiboo	n HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol. Store at –20°C. lies.
Specificity/Sensi	tivity	recognizes peptides and p position. There is some pr preceded by arginine at bo	ostrate Motif (RXXS*/T*) (110B7) Rabbit mAb (Sepharose <sup>®</sup> Bead Conjugate) roteins containing phospho-serine/threonine preceded by arginine at the -3 eference observed for peptides that contain phospho-serine/threonine oth positions -5 and -3. (U.S. Patent No's.: 6,441,140; 6,982,318; 7,259,022; ,485; and all foreign equivalents.)
Source / Purifica	tion	Monoclonal antibody is pr peptides.	oduced by immunizing animals with synthetic phospho-Akt substrate
Description		N-hydroxysuccinimide (NF	logy antibody is immobilized via covalent binding of primary amino groups to IS)-activated Sepharose <sup>®</sup> beads. Phospho-Akt Substrate (RXXS*/T*) (110B7E) 3ead Conjugate) is useful for the immunoprecipitation of phosphorylated Akt
Background		cAMP-dependent protein l and RSK. These kinases sh phosphorylated Ser or Thr including cell growth and of Akt substrates are know discovery. Akt phosphoryla positions -5 and -3 (6). Pho powerful tools for investig	ses, referred to as Arg-directed kinases or AGC-family kinases, includes kinase (PKA), cGMP-dependent protein kinase (PKG), protein kinase C, Akt, are a substrate specificity characterized by Arg at position -3 relative to the r (1,2). Akt plays a central role in mediating critical cellular responses survival, angiogenesis, and transcriptional regulation (3-5). While a number wn (such as GSK-3, Bad, and caspase-9) many important substrates await ates substrates only at Ser/Thr in a conserved motif characterized by Arg at pspho-Akt substrate-specific antibodies from Cell Signaling Technology are lating the regulation of phosphorylation by Akt and other Arg-directed n throughput kinase drug discovery.
Background Ref	erences	2. Pearson, R.B. and Kemp 3. Marte, B.M. and Downw 4. Jiang, B.H. et al. (2000) <i>F</i>	nu Rev Biochem 66, 807-22. n, B.E. (1991) <i>Methods Enzymol</i> 200, 62-81. rard, J. (1997) <i>Trends Biochem Sci</i> 22, 355-8. Proc Natl Acad Sci USA 97, 1749-53. ett, J.R. (2000) <i>Curr Biol</i> 10, R191-4. FEBS Lett 399, 333-8.
Species Reactivit	tv	Species reactivity is detern	nined by testing in at least one approved application (e.g., western blot).
Applications Key	-	<b>IP:</b> Immunoprecipitation	
Cross-Reactivity	Key	All: All Species Expected	
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