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Phospho-Akt Substrate (RXXS*/T*) (110B7E) Rabbit mAb (HRP Conjugate)



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

Applications: W	Reactivity: All	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information		Application Western Blotting	Dilution 1:1000
Storage			3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium ng/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>
Specificity/Sensiti	ivity	proteins containing phosp	(XS*/T*) (110B7E) Rabbit mAb (HRP Conjugate) recognizes peptides and ho-serine/threonine preceded by arginine at the -3 position. There is some eptides that contain phospho-serine/threonine preceded by arginine at both
Source / Purificat	ion	Monoclonal antibody is pro peptides.	oduced by immunizing animals with synthetic phospho-Akt substrate
Description		peroxidase (HRP) via its am	ogy antibody is conjugated to the carbohydrate groups of horseradish nine groups. The HRP conjugated antibody is expected to exhibit the same the unconjugated Phospho-Akt Substrate (RXXS*/T*) (110B7E) Rabbit mAb
Background		An important class of kinases, referred to as Arg-directed kinases or AGC-family kinases, includes cAMP-dependent protein kinase (PKA), cGMP-dependent protein kinase (PKG), protein kinase C, Akt, and RSK. These kinases share a substrate specificity characterized by Arg at position -3 relative to the phosphorylated Ser or Thr (1,2). Akt plays a central role in mediating critical cellular responses including cell growth and survival, angiogenesis, and transcriptional regulation (3-5). While a number of Akt substrates are known (such as GSK-3, Bad, and caspase-9) many important substrates await discovery. Akt phosphorylates substrates only at Ser/Thr in a conserved motif characterized by Arg at positions -5 and -3 (6). Phospho-Akt substrate-specific antibodies from Cell Signaling Technology are powerful tools for investigating the regulation of phosphorylation by Akt and other Arg-directed kinases, as well as for high throughput kinase drug discovery.	
Background Refe	rences	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. , B.E. (1991) Methods Enzymol 200, 62-81. ard, J. (1997) Trends Biochem Sci 22, 355-8. Proc Natl Acad Sci USA 97, 1749-53. ett, J.R. (2000) Curr Biol 10, R191-4. FEBS Lett 399, 333-8.
Species Reactivity	,	Species reactivity is determ	nined by testing in at least one approved application (e.g., western blot).
Western Blot Buff	er		olots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X °C with gentle shaking, overnight.
Applications Key		W: Western Blotting	
Cross-Reactivity K	(ey	All: All Species Expected	
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