

54508

Phospho-Estrogen Receptor α (Ser167) (D5W3Z) Rabbit mAb



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

W, IF-IC	Reactivity:	Sensitivity: Endogenous	MW (kDa): 66	Source/Isotype: Rabbit IgG	UniProt ID: #P03372	Entrez-Gene Id: 2099
Product Usage Information		Application Western Blotting Immunofluorescence	! (Immunocytochem	nistry)		Dilution 1:1000 1:800
Storage				5), 150 mM NaCl, 100 µg. ot aliquot the antibody.	/ml BSA, 50% glyce	rol and less than
Specificity/Sensitivity		Phospho-Estrogen Receptor α (Ser167) (D5W3Z) Rabbit mAb recognizes endogenous levels of ER α protein only when phosphorylated at Ser167.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser167 of human ER α protein.				
Background		DNA binding and liga dependent activation coactivator proteins a multiple sites provide 167 are located in the phosphorylation of the bethe substrate of the p90RSK and Akt (4,6). tamoxifen resistance ERa can be phosphorylation on Sattributed to increase	nd binding domains domains (AF-1 and interacting with a minortant med amino-terminal traces serine residues a transcription regulated at Ser167 by er167 promotes ER and binding to tame at Ser167 by er167 promotes ER and binding domains and bindin	the steroid receptor sup- s (1). Through its estroge AF-2, respectively), ERG general transcriptional hanism to regulate ERG inscription activation fur- plays an important role alatory kinase CDK7 (5). Search literature, phosp tients (4). various kinases such as a-dependent transcription oxifen treatment (6, 9, 1 ates with poor prognosis	en-independent and regulates transcrip machinery (2). Phose activity (3-5). Ser10 nction domain AF-1 in regulating ERG a Ser167 may be phohorylation at Ser16 S6K1, RSK, and Auron and cellular prol 0). Various studies	d estrogen- tion by recruiting sphorylation at 4, 106, 118, and , and activity. Ser118 may sphorylated by 7 may confer ora A (7-9). iferation, and is have shown that
Background Refe	erences	1. Mangelsdorf, D.J. et al. (1995) <i>Cell</i> 83, 835-9. 2. Glass, C.K. and Rosenfeld, M.G. (2000) <i>Genes Dev</i> 14, 121-41. 3. Chen, D. et al. (1999) <i>Mol Cell Biol</i> 19, 1002-15. 4. Campbell, R.A. et al. (2001) <i>J Biol Chem</i> 276, 9817-24. 5. Chen, D. et al. (2000) <i>Mol Cell</i> 6, 127-37. 6. Joel, P.B. et al. (1998) <i>Mol Cell Biol</i> 18, 1978-84. 7. Yamnik, R.L. et al. (2009) <i>J Biol Chem</i> 284, 6361-9. 8. Yamnik, R.L. and Holz, M.K. (2010) <i>FEBS Lett</i> 584, 124-8. 9. Zheng, X.Q. et al. (2014) <i>Oncogene</i> 33, 4985-96. 10. Wang, Y. et al. (2015) <i>J Mol Endocrinol</i> 54, 351-61. 11. López-Calderero, I. et al. (2014) <i>Hum Pathol</i> 45, 2437-46. 12. Kato, E. et al. (2014) <i>Cancer Sci</i> 105, 1307-12.				

Species Reactivity

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

W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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