Revision 1			
Phospho-Estrogen Receptor α (Ser118) (16J4) Mouse mAb			
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Applications: W, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 66	Source/Isotype: Mouse IgG2b	UniProt ID: #P03372	Entrez-Gene Id 2099	
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)		Dilution 1:1000 1:800			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Phospho-Estrogen Receptor α (Ser118) (16J4) Mouse mAb detects endogenous levels of estrogen receptor α only when phosphorylated at serine 118. It does not cross-react with phosphorylated estrogen receptor β .					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser118 of human ER α .					
Background		DNA binding and liga dependent activation coactivator proteins a multiple sites provide 167 are located in the phosphorylation of the be the substrate of the	nd binding domain of domains (AF-1 and and interacting with es an important med e amino-terminal tra- nese serine residues he transcription regi According to the re	he steroid receptor sup s (1). Through its estroge AF-2, respectively), ERa general transcriptional hanism to regulate ERa nscription activation fur plays an important role latory kinase CDK7 (5). S search literature, phosp tients (4).	en-independent and regulates transcrip machinery (2). Phot activity (3-5). Ser10 action domain AF-1 in regulating ER0 Ser167 may be pho	d estrogen- tion by recruiting sphorylation at 4, 106, 118, and , and activity. Ser118 may sphorylated by	
Background References 1. Mangelsdorf, D.J. et al. (1995) Cell 83, 835-9. 2. Glass, C.K. and Rosenfeld, M.G. (2000) Genes Dev 14, 121-41. 3. Chen, D. et al. (1999) Mol Cell Biol 19, 1002-15. 4. Campbell, R.A. et al. (2001) J Biol Chem 276, 9817-24. 5. Chen, D. et al. (1998) Mol Cell 6, 127-37. 6. Joel, P.B. et al. (1998) Mol Cell Biol 18, 1978-84.							
Species Reactiv	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	DIT Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfadry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v nonfat		
Applications K	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivit	ty Key	H: Human					
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