

Phospho-Progesterone Receptor (Ser345) Antibody



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90 (PR-A), 118 (PR- B)	Source/Isotype: Rabbit	UniProt ID: #P06401	Entrez-Gene Id: 5241
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM s 20°C. Do not aliquo	sodium HEPES (pH 7.5) t the antibody.	150 mM NaCl, 100 μg	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Sensitivity		Phospho-Progesterone Receptor (Ser345) Antibody recognizes endogenous levels of progesterone receptor B (PR-B) and progesterone receptor A (PR-A) proteins only when phosphorylated at Ser345 and Ser181, respectively. This antibody does not cross-react with other progesterone receptor family members.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser345 of human progesterone receptor B (PR-B) protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		PR-A. PR-A lacks the but differ in their re regulated by phospi domain. Three sites (Ser190, Ser294, Ser Ser190 (equivalent t activity of PR (7), suffunction. Research studies haby MAPK and plays	ne receptor (PR) is expr first 164 amino acid re lative ability to activate horylation; at least sev (Ser81, Ser102, and Se 345, and Ser400) are s to Ser26 of PR-A) is cata ggesting that the phos we demonstrated ligar an important role in m r345-phosphorylated P	esidues of PR-B (1,2). Be target gene transcrip en serine residues are r162) are unique to fut hared by both isoform salyzed by CDK2 (6). Mut phorylation at Ser190 dedependent phosphoediating the proliferati	oth PR-A and PR-B a tion (3,4). The activi phosphorylated in i Il length PR-B, while s (5). Phosphorylati tation of Ser190 res may be critical to its orylation of PR-B at on of breast cancer	are ligand activated, ty of PR is ts amino-terminal to ther sites on of PR-B at ults in decreased to biological Ser345 is catalyzed cells. Investigators
Background References		 Evans, R.M. (1988) Science 240, 889-895. Kastner, P. et al. (1990) EMBO J. 112, 1603-1614. Giangrande, P.H. et al. (2000) Mol. Cell. Biol. 20, 3102-3115. Wen, D.X. et al. (1994) Mol. Cell. Biol. 14, 8356-8364. Clemm, D.L. et al. (2000) Mol. Endocrinol. 14, 52-65. Zhang, Y. et al. (1997) Mol. Endocrinol. 11, 823-832. Takimoto, G.S. et al. (1996) J. Biol. Chem. 271, 13308-13316. Faivre, E.J. et al. (2008) Mol Endocrinol 22, 823-37. 				
Species Reactiv	ity	Species reactivity is	determined by testing	in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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