Store at -20C	Steroid Hormone Receptor Antibody Sampler Kit			
#84200	1 Kit (5 x 20 microliters)			
For Research Use Only. Not for Use in Diagnostic Procedures.				



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## For **R** Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Androgen Receptor (D6F11) XP <sup>®</sup> Rabbit mAb	5153	20 µl	110 kDa	Rabbit IgG
Estrogen Receptor α (D8H8) Rabbit mAb	8644	20 µl	66 kDa	Rabbit IgG
Glucocorticoid Receptor (D6H2L) XP <sup>®</sup> Rabbit mAb	12041	20 µl	94, 91 kDa	Rabbit IgG
Progesterone Receptor A/B (D8Q2J) XP <sup>®</sup> Rabbit mAb	8757	20 µl	90 (PR-A), 118 (PR-B) kDa	Rabbit IgG
Mineralocorticoid Receptor (E9W1M) Rabbit mAb	58883	20 µl	120 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Steroid Hormone Receptor Antibody Sampler Kit provides an economical means of detecting levels of steroid hormone nuclear receptors. The kit includes enough antibodies to perform two western blot experiments with each primary antibody.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/mL BSA, 50% glycerol, and less than 0.02% sodium azide. Store at –20°C. <i>Do not aliquot the antibodies.</i>
Background	Androgen receptor (AR), a zinc finger transcription factor belonging to the nuclear receptor superfamily, is activated by phosphorylation and dimerization upon ligand binding (1). This promotes nuclear localization and binding of AR to androgen response elements in androgen target genes. Research studies have shown that AR plays a crucial role in several stages of male development and the progression of prostate cancer (2,3). Estrogen receptor a (ERQ), a member of the steroid receptor superfamily, contains highly conserved DNA-binding and ligand-binding domains (4). Through its estrogen-independent and estrogen-dependent activation domains (AF-1 and AF-2, respectively), ERa regulates transcription by recruiting coactivator proteins and interacting with general transcriptional machinery (5). Human progesterone receptor (PR) is expressed as two forms: the full length PR-B and the short form PR-A. PR-A lacks the first 164 amino acid residues of PR-B (6,7). Both PR-A and PR-B are ligand activated, but differ in their relative ability to activate target gene transcription (8,9). Glucocorticoid hormones control cellular proliferation, inflammation, and metabolism through their association with the glucocorticoid receptor (GR)/NR3C1, a member of the nuclear hormone receptor superfamily of transcription factors (10). GR is composed of several conserved structural elements, including a carboxy-terminal ligand-binding domain (which also contains residues critical for receptor dimerization and hormone-dependent gene transactivation), a neighboring hinge region containing nuclear localization signals, a central zinc-finger-containing DNA-binding domain, and an amino-terminal variable region that participates in ligand-independent gene transcription. In the absence of hormone, a significant population of GR is localized to the cytoplasm in an inactive form via its association with regulatory chaperone proteins, such as HSP90, HSP70, and FKBP52. On hormone binding, GR is released from the chaperone complex and translocates t
Background References	<ol> <li>Li, J. and Al-Azzawi, F. (2009) <i>Maturitas</i> 63, 142-8.</li> <li>Avila, D.M. et al. (2001) <i>J Steroid Biochem Mol Biol</i> 76, 135-42.</li> <li>Montgomery, J.S. et al. (2001) <i>J Pathol</i> 195, 138-46.</li> <li>Mangelsdorf, D.J. et al. (1995) <i>Cell</i> 83, 835-9.</li> <li>Glass, C.K. and Rosenfeld, M.G. (2000) <i>Genes Dev</i> 14, 121-41.</li> <li>Evans, R.M. (1988) <i>Science</i> 240, 889-95.</li> <li>Kastner, P. et al. (1990) <i>EMBO J</i> 9, 1603-14.</li> <li>Giangrande, P.H. et al. (2000) <i>Mol Cell Biol</i> 20, 3102-15.</li> </ol>

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