

Rabbit Anti-progesterone receptor antibody

SL0111R

Product Name:	progesterone receptor	
Chinese Name:	孕激素受体抗体 人名英格兰 人名英格兰 人名英格兰 人名英格兰 人名英格兰 人名英格兰人 化乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二乙二	
Alias:	NR3C3; Nuclear receptor subfamily 3 group C member 3; PGR; PR; PRA; PRB; Progesterone receptor; Progestin receptor form A; Progestin receptor form B; PRGR HUMAN; Progestin receptor form A; Progestin receptor form B.	
Organism Species:	Rabbit	
Clonality:	Polyclonal	
React Species:	Human, Mouse, Rat, Dog, Horse, Rabbit,	
	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500(Paraffin	
Applications	sections need antigen repair)	
Applications:	not yet tested in other applications.	
	optimal dilutions/concentrations should be determined by the end user.	
Molecular weight:	103kDa	
Cellular localization:	The nucleuscytoplasmic	
Form:	Lyophilized or Liquid	
Concentration:	1mg/ml	
immunogen:	KLH conjugated synthetic peptide derived from human progesterone receptor:501- 600/933	
Lsotype:	IgG	
Purification:	affinity purified by Protein A	
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.	
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.	
PubMed:	PubMed	
Product Detail:	Estrogen and progesterone receptor are members of a family of transcription factors that are regulated by the binding of their cognate ligands. The interaction of hormone-bound estrogen receptors with estrogen responsive elements(EREs) alters transcription of ERE-containing genes. The carboxy terminal region of the estrgen receptor contains the	

ligand binding domain, the amino terminus serves as the transactivation domain, and the DNA binding domain is centrally located. Two forms of estrogen receptor have been identified, ER alpha and ER beta. ER alpha and ER beta have been shown to be differentially activated by various ligands. The biological response to progesterone is mediated by two distinct forms of the human progesterone receptor (hPR-Aand hPR-B), which arise from alternative splicing. In most cells, hPR-B functions as a transcriptional activator of progesterone-responsive gene, whereas hPR-A function as a transcriptional inhibitor of all steroid hormone receptors.

Function:

The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Progesterone receptor isoform B (PRB) is involved activation of c-SRC/MAPK signaling on hormone stimulation.

Isoform A is inactive in stimulating c-Src/MAPK signaling on hormone stimulation.

Subunit:

Interacts with SMARD1 and UNC45A. Interacts with CUEDC2; the interaction promotes ubiquitination, decreases sumoylation, and repesses transcriptional activity. Interacts with PIAS3; the interaction promotes sumoylation of PR in a hormone-dependent manner, inhibits DNA-binding, and alters nuclear export. Interacts with SP1; the interaction requires ligand-induced phosphorylation on Ser-345 by ERK1/2 MAPK. Interacts with PRMT2.

Subcellular Location:

Nucleus. Cytoplasm. Note=Nucleoplasmic shuttling is both homone- and cell cycledependent. On hormone stimulation, retained in the cytoplasm in the G(1) and G(2)/M phases. Isoform A: Nucleus. Cytoplasm. Note=Mainly nuclear.

Post-translational modifications:

Phosphorylated on multiple serine sites. Several of these sites are hormone-dependent. Phosphorylation on Ser-294 occurs preferentially on isoform B, is highly hormonedependent and modulates ubiquitination and sumoylation on Lys-388. Phosphorylation on Ser-102 and Ser-345 also requires induction by hormone. Basal phosphorylation on Ser-81, Ser-162, Ser-190 and Ser-400 is increased in response to progesterone and can be phosphorylated in vitro by the CDK2-A1 complex. Increased levels of phosphorylation on Ser-400 also in the presence of EGF, heregulin, IGF, PMA and FBS. Phosphorylation at this site by CDK2 is ligand-independent, and increases nuclear translocation and transcriptional activity. Phosphorylation at Ser-162 and Ser-294, but not at Ser-190, is impaired during the G(2)/M phase of the cell cycle. Phosphorylation on Ser-345 by ERK1/2 MAPK is required for interaction with SP1. Sumoylation is hormone-dependent and represses transcriptional activity. Sumoylation on all three sites is enhanced by PIAS3. Desumoylated by SENP1. Sumoylation on Lys-388, the main site of sumoylation, is repressed by ubiquitination on the same site, and modulated by phosphorylation at Ser-294.

S P	WISS: 206401
C 5	Gene ID: 241
C	Database links:
E	Entrez Gene: 5241 Human
E	Entrez Gene: 18667 Mouse
E	Entrez Gene: 100009094 Rabbit
E	Entrez Gene: 25154 Rat
C	<u>Dmim: 607311</u> Human
S	wissProt: P06401 Human
S	wissProt: Q00175 Mouse
S	wissProt: P06186 Rabbit
S	wissProt: Q63449 Rat
L	<u>Jnigene: 2905</u> Human
L	<u>Jnigene: 32405</u> Human
U	Jnigene: 742403 Human
L	Jnigene: 12798 Mouse
L	<u>Jnigene: 437703</u> Mouse
L	<u>Jnigene: 1947</u> Rabbit
L	Jnigene: 10303 Rat

 準固醇受体(Steroid
Receptors)孕激素受体是一类位于孕酮靶组织细胞内或细胞表面的特异蛋白质.特
异地与孕酮结合,所形成的细胞溶质孕酮-受体复合物随后与The
nucleus内的DNA结合,以启动蛋白质生物合成。孕酮受体有A和B两种,受雌激素
诱导, 半寿期很短。

www.suntondoiotech.com