

Anti-Progesterone Receptor antibody [Alpha PR6] ab2765

★★★★★ [6 Abreviews](#) [33 References](#) [4 图像](#)

概述

产品名称	Anti-Progesterone Receptor抗体[Alpha PR6]
描述	小鼠单克隆抗体[Alpha PR6] to Progesterone Receptor
宿主	Mouse
特异性	Detects the B form of the progesterone receptor (PR). This antibody does not cross-react with estrogen receptor or glucocorticoid receptor.
经测试应用	适用于: IHC-P, WB, Flow Cyt, ICC/IF
种属反应性	与反应: Human
免疫原	Full length protein corresponding to Chicken Progesterone Receptor. Progesterone receptor purified from chick oviduct cytosol.
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: 0.05% Sodium azide Constituent: PBS
纯度	Protein G purified
克隆	单克隆
克隆编号	Alpha PR6
同种型	IgG2a

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab2765于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

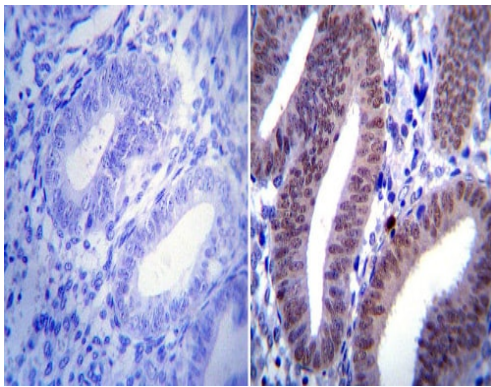
应用	Ab评论	说明
IHC-P	★★★★★ (5)	Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 99 kDa.
Flow Cyt		Use 0.5µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

靶标

功能	<p>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.</p> <p>Isoform A: inactive in stimulating c-Src/MAPK signaling on hormone stimulation.</p> <p>Isoform 4: Increases mitochondrial membrane potential and cellular respiration upon stimulation by progesterone.</p>
序列相似性	<p>Belongs to the nuclear hormone receptor family. NR3 subfamily.</p> <p>Contains 1 nuclear receptor DNA-binding domain.</p>
结构域	<p>Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.</p>
翻译后修饰	<p>Phosphorylated on multiple serine sites. Several of these sites are hormone-dependent.</p> <p>Phosphorylation on Ser-294 occurs preferentially on isoform B, is highly hormone-dependent 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.</p> <p>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.</p> <p>Ubiquitination is hormone-dependent and represses sumoylation on the same site. Promoted by MAPK-mediated phosphorylation on Ser-294.</p> <p>Palmitoylated by ZDHHC7 and ZDHHC21. Palmitoylation is required for plasma membrane targeting and for rapid intracellular signaling via ERK and AKT kinases and cAMP generation.</p>
细胞定位	<p>Nucleus. Cytoplasm. Nucleoplasmic shuttling is both hormone- and cell cycle-dependent. On</p>

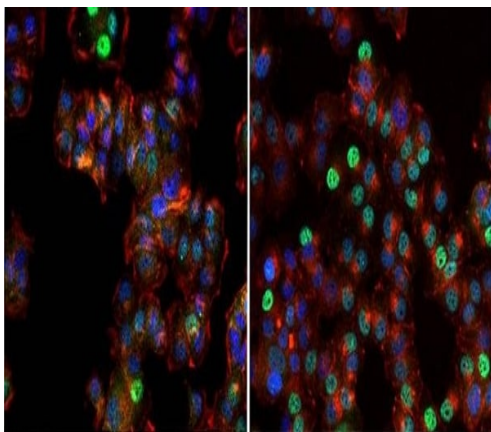
hormone stimulation, retained in the cytoplasm in the G(1) and G(2)/M phases; Mitochondrion outer membrane and Nucleus. Cytoplasm. Mainly nuclear.

图片



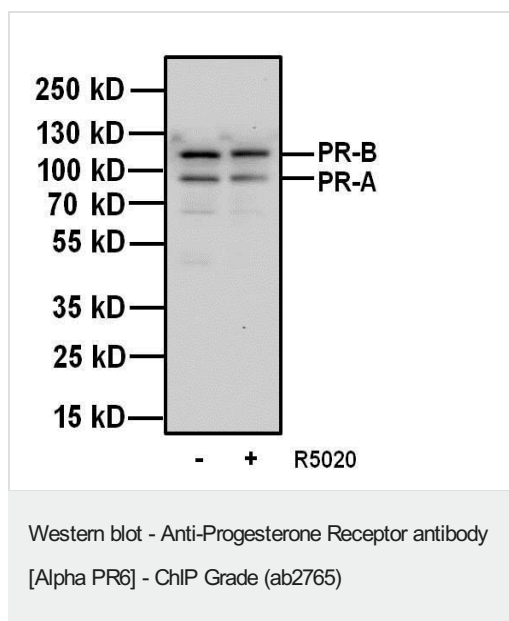
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Progesterone Receptor antibody [Alpha PR6] (ab2765)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) was performed on human uterus tissue. Antigen retrieval was performed using 10mM sodium citrate followed by microwave treatment for 8-15 minutes. Endogenous peroxidases were blocked in 3% H2O2-methanol for 15 minutes and tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Cells were incubated with ab2765 (1:20) overnight in a humidified chamber. Tissues were washed in PBST and detection was performed using a secondary antibody conjugated to HRP. DAB staining buffer was applied and tissues were counterstained with hematoxylin and prepped for mounting. Images were taken at 40X magnification.



Immunocytochemistry/ Immunofluorescence - Anti-Progesterone Receptor antibody [Alpha PR6] - ChIP Grade (ab2765)

Immunocytochemistry/ Immunofluorescence analysis of T47D cells untreated (left) or stimulated with 100nm promegestone for 1 hour (right), labeling Progesterone Receptor with ab2765 (green). The cells were fixed with formalin for 15 minutes, permeabilized with 0.1% Triton X-100 in TBS for 10 minutes, and blocked with 3% Blocker BSA for 15 minutes at room temperature. Cells were stained with Anti-Progesterone Receptor antibody [Alpha PR6] - ChIP Grade (ab2765) at a dilution of 1/100 for 1 hour at 37C, and then incubated with a Alexa Fluor 488 goat anti-mouse IgG secondary antibody at a dilution of 1/1000 for 30 minutes at room temperature (both panels, green). Nuclei (both panels, blue) were stained with Hoechst 33342 dye.



All lanes : Anti-Progesterone Receptor antibody [Alpha PR6] (ab2765) at 1 µg/ml

Lane 1 : T47D cell lysate untreated (-)

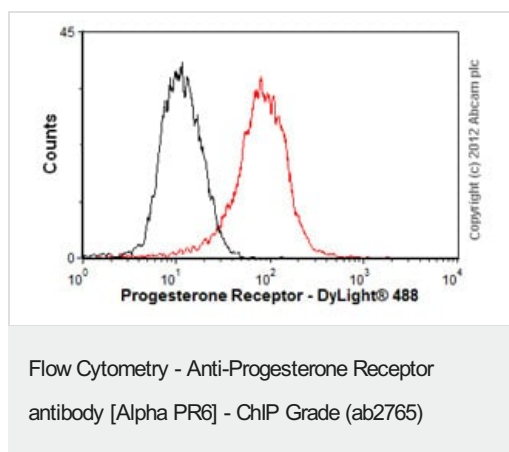
Lane 2 : T47D cell lysate stimulated (+) with 100 nm promegestone for 1 hour

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Mouse IgG-HRP at 1/2000 dilution

Predicted band size: 99 kDa



Overlay histogram showing T47D cells stained with ab2765 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab2765, 0.5µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 2µg/1x10⁶ cells) used under the same conditions.

Acquisition of >5,000 events was performed.

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