abcam

Product datasheet

Anti-Progesterone Receptor antibody - C-terminal ab191138

6 Abreviews 4 Images

Overview

Product name	Anti-Progesterone Receptor antibody - C-terminal
Description	Rabbit polyclonal to Progesterone Receptor - C-terminal
Host species	Rabbit
Specificity	No cross reactivity with other proteins.
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rabbit, Chicken, Dog, Chimpanzee, Gorilla, Orangutan
Immunogen	Recombinant fragment corresponding to Human Progesterone Receptor aa 595-933 (C terminal). (E. coli-derived). Sequence: MEGQHNYLCAGRNDCIVDKIRRKNCPACRLRKCCQAG MVLGGRKFKKFNK VRVVRALDAVALPQPVGVPNESQALSQRFTFSPGQDI QLIPPLINLLMSI EPDVIYAGHDNTKPDTSSSLLTSLNQLGERQLLSVVK WSKSLPGFRNLHI DDQITLIQYSWMSLMVFGLGWRSYKHVSGQMLYFAPD LILNEQRMKESSF YSLCLTMWQIPQEFVKLQVSQEEFLCMKVLLLLNTIPL EGLRSQTQFEEM RSSYIRELIKAIGLRQKGVVSSSQRFYQLTKLLDNLHDL VKQLHLYCLNT FIQSRALSVEFPEMMSEVIAAQLPKILAGMVKPLLFHK K Database link: P06401 Run BLAST with Run BLAST with
Positive control	HeLa, MCF7 and SKOV Whole Cell Lysates; Rat and Mouse Brain Tissue Lysates; Human Lung, Mammary and Intestinal Cancer Tissues.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.025% Sodium azide Constituents: 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab191138** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

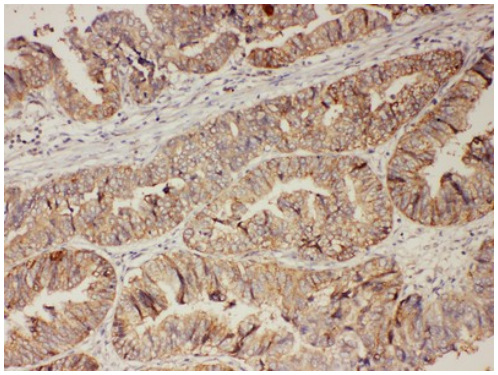
Application	Abreviews	Notes
IHC-P	★★★★☆	Use a concentration of 0.5 - 1 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.1 - 0.5 µg/ml. Predicted molecular weight: 99 kDa.

Target

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: inactive in stimulating c-Src/MAPK signaling on hormone stimulation. Isoform 4: Increases mitochondrial membrane potential and cellular respiration upon stimulation by progesterone.
Sequence similarities	Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.
Domain	Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.
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 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. 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

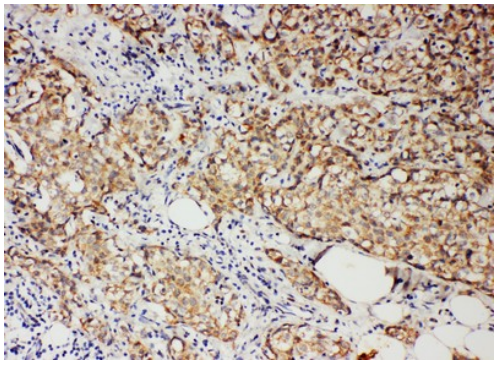
	phosphorylation at Ser-294. Ubiquitination is hormone-dependent and represses sumoylation on the same site. Promoted by MAPK-mediated phosphorylation on Ser-294. Palmitoylated by ZDHHC7 and ZDHHC21. Palmitoylation is required for plasma membrane targeting and for rapid intracellular signaling via ERK and AKT kinases and cAMP generation.
Cellular localization	Nucleus. Cytoplasm. Nucleoplasmic shuttling is both homone- and cell cycle-dependent. On hormone stimulation, retained in the cytoplasm in the G(1) and G(2)/M phases; Mitochondrion outer membrane and Nucleus. Cytoplasm. Mainly nuclear.

Images



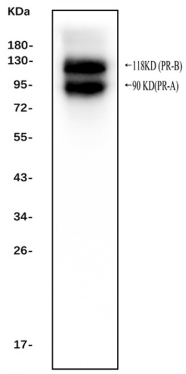
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Progesterone Receptor antibody - C-terminal (ab191138)

Immunohistochemical analysis of paraffin-embedded Human Intestinal Cancer Tissue labeling Progesterone Receptor with ab191138 at 1 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Progesterone Receptor antibody - C-terminal (ab191138)

Immunohistochemical analysis of paraffin-embedded Human Mammary Cancer Tissue labeling Progesterone Receptor with ab191138 at 1 µg/ml.



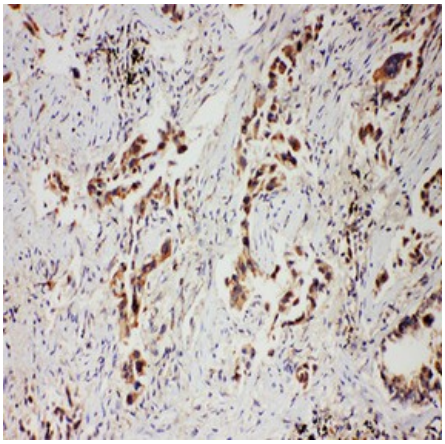
Western blot - Anti-Progesterone Receptor antibody - C-terminal (ab191138)

Anti-Progesterone Receptor antibody - C-terminal (ab191138) at 0.1 µg/ml + Human T-47D whole cell lysates. at 50 µg with 5% non-fat milk/ TBS for 1.5 hours at room temperature.

Secondary
Goat anti-Rabbit IgG-HRP for 1.5 hours at room temperature at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 99 kDa
Additional bands at: 90 kDa (possible isoform), 99 kDa (possible isoform)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Progesterone Receptor antibody - C-terminal (ab191138)

Immunohistochemical analysis of paraffin-embedded Human Lung Cancer Tissue labeling Progesterone Receptor with ab191138 at 1 µg/ml.

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