

Anti-Phospho-Progesterone Receptor (Ser294) PGR Antibody

Catalog Number: P00541-1

About PGR

There is accumulating evidence to suggest that progesterone plays an essential role in the regulation of growth and differentiation of mammary glands and thus may play a key role in breast cancer (Edwards, 2005). The biological response to progesterone is mediated by two distinct forms of the human progesterone receptor (PR-A and PR-B forms). In most cell contexts, the B form functions as a transcriptional activator, whereas the A form functions as a transcriptional inhibitor of steroid hormones (Attia et al., 2000; Lin et al., 2003). Recently it has been demonstrated that there is differential hormone dependent regulation of the phosphorylation of the A and B forms of the receptor (Clemm et al., 2000). Treatment of T47D breast cancer cells with progestin agonist increases the phosphorylation of Ser-190 and Ser-294 with different kinetics. These phosphorylation events may differentially affect the transcriptional activity of the receptor.

Overview

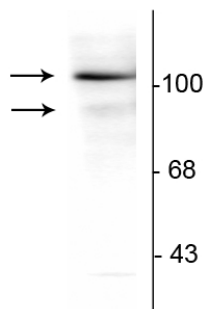
Product Name	Anti-Phospho-Progesterone Receptor (Ser294) PGR Antibody
Reactive Species	Human
Description	Boster Bio Anti-Phospho-Progesterone Receptor (Ser294) PGR Antibody (Catalog # P00541-1). Tested in WB, IHC applications. This antibody reacts with Human.
Application	IHC, WB
Clonality	Monoclonal 608
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Mouse
Uniprot ID	P06401

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser294 of human progesterone receptor, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Primate
Isotype	IgG1
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution

	procedure.
Purification	Protein G purified culture supernatant
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1:1000</p> <p>IHC: 1:1000</p>

Anti-Phospho-Progesterone Receptor (Ser294) PGR Antibody (P00541-1) Images



Western blot of T47D cell lysate prepared from cells that had been incubated in the presence of the synthetic progestin agonist R5020 (500 nM) showing specific immunolabeling of the ~90 kDa PR-A isoform and the ~120 kDa PR-B isoform of the progesterone receptor phosphorylated at Ser²⁹⁴. The immunolabeling is blocked by the phosphopeptide used as the antigen (not shown).

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