

Anti-Phospho-Androgen Receptor (AR) (Ser94) Antibody

Catalog Number: P00542-1

About AR

The androgen receptor (AR) is a DNA-binding transcription factor that regulates genes critical for the development and maintenance of the male sexual phenotype. Defects in androgen receptor have been shown to play a role in prostate cancer, and inhibition of AR activity through modulation of signal transduction pathways may delay prostate cancer progression (Heinlein and Chang 2004). Multiple phosphorylation sites have been identified on the androgen receptor that affect cross-talk between growth factor signaling and androgen in prostate development and cancer (Gioeli et al., 2002). One of these sites, at Ser94, appears constitutively phosphorylated and exhibits no response to treatments with stimulating hormone (Gioeli et al., 2002). The site at Ser94 is unique among the AR phosphorylation sites in that it does not achieve a maximal level of phosphorylation between translation and the initial round of nuclear import, having a strong bias for androgen-independent phosphorylation in the cytoplasm (Kesler et al., 2007).

Overview

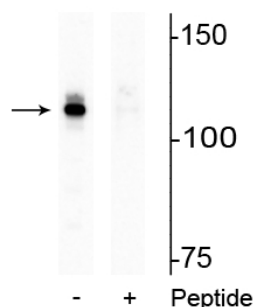
Product Name	Anti-Phospho-Androgen Receptor (AR) (Ser94) Antibody
Reactive Species	Human
Description	Boster Bio Anti-Phospho-Androgen Receptor (AR) (Ser94) Antibody (Catalog # P00542-1). Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal 608
Formulation	10 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	Rabbit
Uniprot ID	P10275

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser94 of human androgen receptor, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Primate
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution

	procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
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>

Anti-Phospho-Androgen Receptor (AR) (Ser94) Antibody (P00542-1) Images



Western blot of HeLa lysate showing specific immunolabeling of the ~110 kDa AR protein phosphorylated at Ser⁹⁴ in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is blocked by the phosphopeptide used as antigen but not by the corresponding non-phosphopeptide (not shown).

1 Publications Citing This Product

1. PubMed ID: 25667651, Zhang Y, Shen Y, Cao B, Yan A, Ji H. Exp Ther Med. 2015 Mar;9(3):905-908. Epub 2014 Dec 19. Elevated Expression Levels Of Androgen Receptors And Matrix Metalloproteinase-2 And -9 In 30 Cases Of Hepatocellular Carcinoma Compared With Adjacent Tissu...

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