

# Androgen Receptor(Phospho-Ser213) Antibody

Catalog No: #11119

Package Size: #11119-1 50ul #11119-2 100ul

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## Description

|                       |                                                                                                                                                                                                                                                                                         |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | Androgen Receptor(Phospho-Ser213) Antibody                                                                                                                                                                                                                                              |
| Host Species          | Rabbit                                                                                                                                                                                                                                                                                  |
| Clonality             | Polyclonal                                                                                                                                                                                                                                                                              |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.<br>Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | WB IF IHC                                                                                                                                                                                                                                                                               |
| Species Reactivity    | Hu                                                                                                                                                                                                                                                                                      |
| Specificity           | The antibody detects endogenous level of Androgen Receptor only when phosphorylated at serine 213.                                                                                                                                                                                      |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                                                                                                                             |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 213 (E-A-S(p)-G-A) derived from Human Androgen Receptor.                                                                                                                                                                         |
| Target Name           | Androgen Receptor                                                                                                                                                                                                                                                                       |
| Modification          | Phospho                                                                                                                                                                                                                                                                                 |
| Other Names           | ANDR; DHTR; AR                                                                                                                                                                                                                                                                          |
| Accession No.         | Swiss-Prot: P10275NCBI Protein: NP_000035.2                                                                                                                                                                                                                                             |
| Concentration         | 1.0mg/ml                                                                                                                                                                                                                                                                                |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                            |
| Storage               | Upon delivery aliquot and store at -20 °C for one year. Avoid freeze/thaw cycles.                                                                                                                                                                                                       |

## Application Details

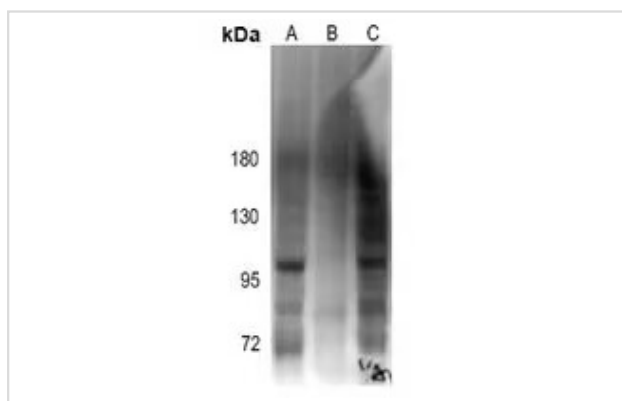
Predicted MW: 110kd

Western blotting: 1:500~1:1000

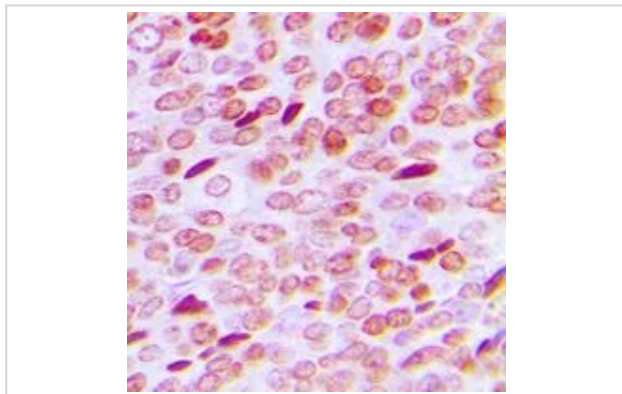
Immunofluorescence: 1:100~1:200

Immunohistochemistry: 1:100~1:200

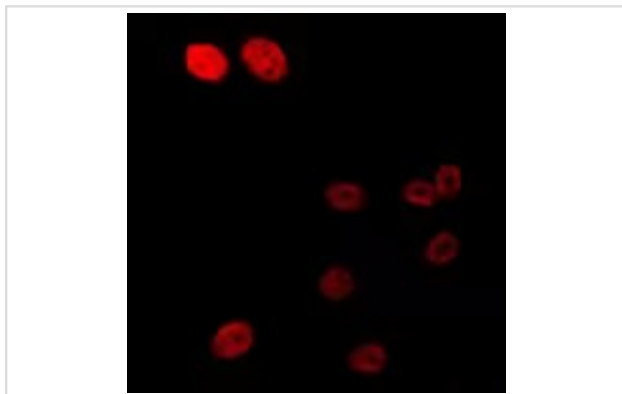
## Images



Western blot analysis of Androgen Receptor(Phospho-Ser213) expression in HEK293T (A), A549 (B), H1792 (C) whole cell lysates.



Immunohistochemical analysis of Androgen Receptor(Phospho-Ser213) staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Androgen Receptor(Phospho-Ser213) staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

## Background

The androgen receptor gene is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described.

Brinkman, A.O. et al. (1999) J. Steroid. Biochem. Mol. Biol. 69, 307-313.

Avila, D.M. et al. (2001) J. Steroid. Biochem. Mol. Biol. 76, 135-142.

Montgomery, J.S. et al. (2001) J. Pathol. 195, 138-146.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.