

## Product datasheet for **AP01524PU-M**

### Androgen Receptor (AR) pSer213 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections:</b> 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of p-Androgen Receptor protein. (region surrounding Ser213)
Formulation:	Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	androgen receptor
Database Link:	<a href="#">Entrez Gene 367 Human P10275</a>



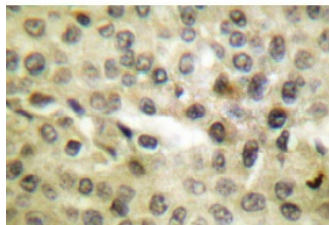
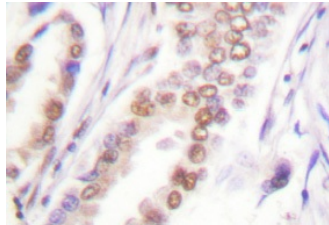
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**Background:**

Androgens have a broad range of effects on the appearance and maintenance of male secondary sexual characteristics. Like other members of the steroid superfamily, the androgen receptor (AR) consists of an amino terminal modulating domain, a central DNA binding domain, a hinge region and a carboxy terminal ligand binding domain. The androgen receptor (AR) is a 110 kDa androgen-dependent transcription factor that is a member of the steroid/nuclear receptor gene superfamily. The AR signaling pathway plays a key role in development and function of male reproductive organs, including the prostate and epididymis. AR also plays a role in nonreproductive organs, such as muscle, hair follicles, and brain. Abnormalities in the AR signaling pathway have been linked to a number of diseases, including prostate cancer, Kennedy's disease and male infertility. The PI3K/Akt signaling pathway plays an important role in regulating AR activity through phosphorylation of AR at Ser213/210 and Ser791/790. Growth factors or cytokines may induce phosphorylation of AR through the PI3K/Akt pathway. Activation of the PI3K/Akt pathway is thought to have a survival role in prostate cancer by protecting cells from apoptosis.

**Synonyms:**

Dihydrotestosterone receptor, DHTR, NR3C4

**Product images:**

Immunohistochemistry (IHC) analysis of p-Androgen Receptor antibody (Cat.-No.: [AP01524PU-N]) in paraffin-embedded human prostate carcinoma tissues