

Product datasheet for **AP06011PU-N**

Androgen Receptor (AR) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunohistochemistry on Paraffin sections: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 611-660 of Human AR.
Specificity:	This antibody detects endogenous levels of Androgen receptor (region surrounding aa646).
Formulation:	Phosphate buffered saline (PBS), pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography using epitope-specific immunogen (> 95% pure; by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store 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.
Predicted Protein Size:	~ 110 kDa
Gene Name:	androgen receptor
Database Link:	Entrez Gene 367 Human P10275



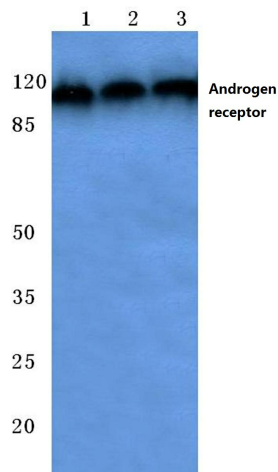
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Background:

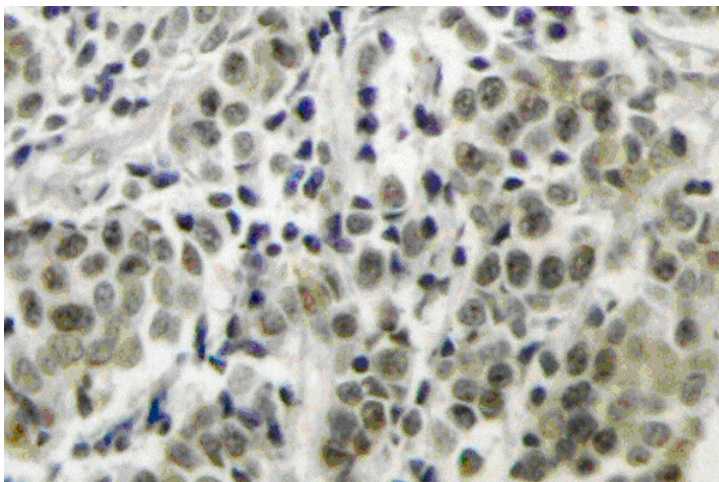
Androgens exhibit a wide range of effects on the development, maintenance and regulation of male phenotype and make reproductive physiology. The androgen receptor (AR) is a member of the steroid superfamily of liganddependent transcription factors. ARs bind the two biologically active androgens, testosterone (T) and dihydrotestosterone (DHT), with high and nearly identical affinities; however, the rates of association and dissociation of T are about three times more rapid than those of DHT. This difference has resulted in speculation as to whether these differences in binding kinetics could account for the different physiological effects of T and DHT. A striking feature of AR is its rapid degradation in the absence of ligand. It is now well established that androgen binding results in an at least six-fold increase in androgen stability and that ligand-induced stabilization of AR is highly androgen- specific.

Synonyms:

Dihydrotestosterone receptor, DHTR, NR3C4

Product images:

Western blot (WB) analysis of AR antibody at 1/500 dilution Lane 1:HEK293T cell lysate Lane 2:NIH-3T3 cell lysate Lane 3:PC12 cell lysate



Immunohistochemical analysis using Androgen receptor antibody in Paraffin-embedded human prostate carcinoma tissue.