

## Rabbit Anti-AR Polyclonal Antibody

CPB-1013RH Rabbit(AR)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-AR Polyclonal Antibody
<b>Antigen Description</b>	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.
<b>specificity</b>	The antibody detects endogenous level of total Androgen Receptor protein.
<b>Target</b>	AR
<b>Immunogen</b>	Peptide sequence around aa. 648~652 (T-T-S-P-T) derived from Human Androgen Receptor.
<b>Host</b>	Rabbit
<b>Species</b>	Human
<b>Cross Reactivity</b>	Human
<b>conjugation</b>	N/A
<b>Applications</b>	WB

### PACKAGING

<b>Format</b>	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.
<b>Storage</b>	Store at -20°C/1 year

### ANTIGEN GENE INFORMATION

<b>Gene Name</b>	<a href="#">AR androgen receptor [ Homo sapiens ]</a>
<b>Official Symbol</b>	AR
<b>Synonyms</b>	AR; androgen receptor; DHTR, dihydrotestosterone receptor , SBMA, spinal and bulbar muscular atrophy; AIS; HUMARA; Kennedy disease; NR3C4; SMAX1; testicular feminization; dihydrotestosterone receptor; androgen nuclear receptor variant 2; nuclear receptor subfamily 3 group C member 4; KD; TFM; DHTR; SBMA; HYSP1;
<b>GeneID</b>	<a href="#">367</a>
<b>mRNA Refseq</b>	<a href="#">NM_000044</a>
<b>Protein Refseq</b>	<a href="#">NP_000035</a>
<b>MIM</b>	<a href="#">313700</a>

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<b>UniProt ID</b>	P10275
<b>Chromosome Location</b>	Xq12
<b>Pathway</b>	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; FOXA1 transcription factor network, organism-specific biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; IL-6 Signaling Pathway, organism-specific biosystem;
<b>Function</b>	DNA binding; DNA binding; POU domain binding; androgen binding; androgen receptor activity; androgen receptor activity; androgen receptor activity; androgen receptor activity; androgen receptor binding; beta-catenin binding; beta-catenin binding; beta-catenin binding; chromatin binding; enzyme binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; metal ion binding; protein binding; protein dimerization activity; receptor activity; receptor binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; steroid binding; transcription factor binding; transcription regulatory region DNA binding; zinc ion binding;