



Anti-AR (aa 1242-1255) polyclonal antibody (CPBT-65817RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rabbit anti Human Androgen Receptor antibody recognizes the human Androgen Receptor (AR) also known as the Dihydrotestosterone receptor or Nuclear receptor subfamily 3 group C member 4. Dihydrotestosterone (DHT) binds with highest affinity to AR and together with testosterone promotes AR transcriptional activity thereby ensuring the development and maintenance of male reproductive functions. AR homodimers recruit a variety of factors including coactivators and mediator proteins whose enzymatic activities promote chromatin remodeling and transcriptional regulation of target genes leading to cell differentiation, survival, and proliferation. Mutated AR is strongly implicated in development of prostate adenocarcinoma and metastases development. AR mutations can also cause spinal bulbar muscular atrophy (Kennedy disease) and partial/ complete androgen insensitivity. Peptide Sequence S-T-E-D-T-A-E-Y-S-P-F-K-G-G-Y-T-K Immunohistology This product does not require protein digestion pre-treatment or antigen retrieval using heat treatment prior to staining of paraffin sections.

Specificity	AR
Immunogen	Synthetic peptide corresponding to the amino acids 1242 - 1255 of the native molecule conjugated to Keyhole limpet Haemocyanin.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Chimpanzee, Rhesus monkey
Conjugate	Unconjugated
Applications	IHC-P
Format	Purified IgG - liquid

Size	1 ml
Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	AR androgen receptor [Homo sapiens (human)]
Official Symbol	AR
Synonyms	AR; androgen receptor; KD; AIS; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA; dihydrotestosterone receptor; androgen nuclear receptor variant 2; nuclear receptor subfamily 3 group C member 4;
Entrez Gene ID	367
Protein Refseq	NP_000035
UniProt ID	P10275
Chromosome Location	Xq12
Pathway	Alpha6-Beta4 Integrin Signaling Pathway; Androgen receptor signaling pathway; Coregulation of Androgen receptor activity; FOXA1 transcription factor network; Gene Expression; Generic Transcription Pathway; IL-6 Signaling Pathway; Integrated Breast Cancer Pathway;
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; androgen binding; androgen receptor activity; beta-catenin binding; chromatin binding; enzyme binding; ligand-activated sequence-specific DNA binding RNA polymerase II transcription factor activity; protein binding; protein dimerization activity; receptor binding; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; zinc ion binding;