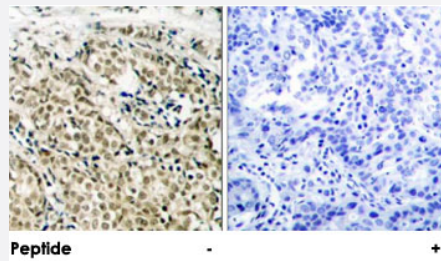


AR polyclonal antibody

Catalog # PAB18448

Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue using AR polyclonal antibody (Cat # PAB18448). Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AR.
Immunogen	A synthetic peptide corresponding to residues surrounding S213 of human AR.
Host	Rabbit
Reactivity	Human
Specificity	This antibody is specific to AR.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Immunohistochemistry (1:50-1:100) ELISA (1:64000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human prostate carcinoma tissue using AR polyclonal antibody (Cat # PAB18448).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — AR

Entrez GeneID[367](#)**Protein Accession#**[P10275](#)**Gene Name**

AR

Gene Alias

AIS, DHTR, HUMARA, KD, NR3C4, SBMA, SMAX1, TFM

Gene Description

androgen receptor

Omim ID[176807](#) [300068](#) [300633](#) [313200](#) [313700](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. [provided by RefSeq]

Other Designations

OTTHUMP00000023450|OTTHUMP00000061928|dihydrotestosterone receptor

Publication Reference

- [Modulation of the cell growth regulator mTOR by Epstein-Barr virus-encoded LMP2A.](#)

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Journal of Virology 2005 May; 79(9):5499.

- [Regulation of mTOR function in response to hypoxia by REDD1 and the TSC1/TSC2 tumor suppressor complex.](#)

Brugarolas J, Lei K, Hurley RL, Manning BD, Reiling JH, Hafen E, Witters LA, Ellisen LW, Kaelin WG Jr.

Genes & Development 2004 Nov; 18(23):2893.

- [Functional interaction between RAFT1/FRAP/mTOR and protein kinase cdelta in the regulation of cap-dependent initiation of translation.](#)

Kumar V, Pandey P, Sabatini D, Kumar M, Majumder PK, Bharti A, Carmichael G, Kufe D, Kharbanda S.

The EMBO Journal 2000 Mar; 19(5):1087.

Pathway

- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Abortion](#)
- [Acne Vulgaris](#)
- [Adenocarcinoma](#)
- [Adrenal Hyperplasia](#)
- [Alcoholism](#)
- [Alopecia](#)
- [Alzheimer disease](#)
- [Androgen-Insensitivity Syndrome](#)

- [Angina Pectoris](#)
- [Antisocial Personality Disorder](#)
- [Arteriosclerosis](#)
- [Arthritis](#)
- [Asperger Syndrome](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Azoospermia](#)
- [Biliary Tract Neoplasms](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)
- [Bone Neoplasms](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cadaver](#)
- [Carcinoma](#)
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- [Diabetes Mellitus](#)
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- [Diabetic Retinopathy](#)
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- [Endometrial Neoplasms](#)
- [Endometriosis](#)
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- [Esophageal Neoplasms](#)
- [Fibroadenoma](#)
- [Fractures](#)
- [Fragile X syndrome](#)
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- [Hepatitis C](#)
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- [Hyperandrogenism](#)
- [Hyperplasia](#)
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- [Inflammation](#)
- [Insulin Resistance](#)
- [Klinefelter Syndrome](#)
- [Leiomyoma](#)
- [Libido](#)
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- [Lung Neoplasms](#)
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- [Lymphopenia](#)
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- [Memory](#)

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- [Microsatellite Instability](#)
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- [Schizophrenia](#)
- [Seminoma](#)
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- [Sexual Dysfunction](#)
- [Sexual Dysfunctions](#)
- [Social Perception](#)
- [Spinal Diseases](#)

- [Spinal Fractures](#)
- [Spinal muscular atrophy](#)
- [Spinocerebellar ataxia](#)
- [Spinocerebellar Ataxias](#)
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- [Substance-Related Disorders](#)
- [Task Performance and Analysis](#)
- [Testicular Neoplasms](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Ureteral Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Neoplasms](#)
- [Virilism](#)
- [Weight Gain](#)
- [Weight Loss](#)