For Research Use Only

androgen receptor Polyclonal antibody

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Catalog Number:22576-1-AP 2 Publications

Basic Information

Catalog Number:
22576-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG17385

GenBank Accession Number:
BC132975

GeneID (NCBI):
367

UNIPROT ID:
P10275

Full Name:
androgen receptor

Calculated MW:
914 aa, 99 kDa

Observed MW:
110 kDa

Purification Method:
Antigen affinity purification

Applications

Tested Applications:
ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, monkey, pig

Cited Species:
human

Background Information

Androgen receptor (AR) also konwn as Dihydrotestosterone receptor (DHTR), Nuclear receptor subfamily 3 group C member 4 (NR3C4).It is one of steriod hormoen receptors, which are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Transcription factor activity is modulated by bound coactivator and corepressor proteins. Transcription activation is down-regulated by NR0B2. Activated, but not phosphorylated, by HIPK3 and ZIPK/DAPK3.Defects in AR are the cause of androgen insensitivity syndrome (AIS).Affected males have female external genitalia, female breast development, blind vagina, absent uterus and female adnexa, and abdominal or inguinal testes, despite a normal 46,XY karyotype.Defects in AR are the cause of spinal and bulbar muscular atrophy X-linked type 1 (SMAX1). In SMAX1 patients the number of Gln ranges from 38 to 62. Longer expansions result in earlier onset and more severe clinical manifestations of the disease.Defects in AR may play a role in metastatic prostate cancer. The mutated receptor stimulates prostate growth and metastases development despite of androgen ablation. This treatment can reduce primary and metastatic lesions probably by inducing apoptosis of tumor cells when they express the wild-type receptor.Defects in AR are the cause of androgen insensitivity syndrome partial (PAIS). PAIS is characterized by hypospadias, hypogonadism, gynecomastia, genital ambiguity, normal XY karyotype, and a pedigree pattern consistent with X-linked recessive inheritance. Some patients present azoospermia or severe oligospermia without other clinical manifestations.This antibody is a rabbit polyclonal antibody. It can specifically recognize the 110kd AR protein.

Notable Publications

Author	Pubmed ID	Journal	Application
Kejun Cheng	29904891	Med Oncol	WB
Qingfu Deng	30664187	Mol Med Rep	WB,IHC,IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data