

For Research Use Only

androgen receptor Polyclonal antibody



Catalog Number: 22576-1-AP

2 Publications

Basic Information

Catalog Number: 22576-1-AP	GenBank Accession Number: BC132975	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 367	
Source: Rabbit	Full Name: androgen receptor	
Isotype: IgG	Calculated MW: 914 aa, 99 kDa	
Immunogen Catalog Number: AG17385	Observed MW: 110 kDa	

Applications

Tested Applications:
ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, monkey, pig

Cited Species:
human

Background Information

Androgen receptor (AR) also known as Dihydrotestosterone receptor (DHTR), Nuclear receptor subfamily 3 group C member 4 (NR3C4). It is one of steroid hormone 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 NROB2. 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 (SMA1). In SMA1 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

***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
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Selected Validation Data