

Cat No: Kab00388

Product Particulars: anti-androgen receptor-antibody

Pack Size: 100µg

Pack Size: Pack Size: 100µg

Purify: Immunogen affinity purified

Host: Rabbit

Isotype: IgG

Storage: PBS with 0.02% sodium azide and 50% glycerol pH 7.3 , -20°C for 24 months (Avoid repeated freeze / thaw cycles.)

Background (Function): 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 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 (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.

Immunogen: androgen receptor

Synonyms: AIS, androgen receptor, AR, DHTR, Dihydrotestosterone receptor, HUMARA, HYS1, KD, NR3C4, SBMA, SMA1, TFM

Calculated MW: 99kDa, observed 71kDa and 100kDa

Uniprot ID: P10275

Specificity: Human, Mouse, Rat

Tested Application: ELISA, WB, IHC

Recommended Dilution: WB : 1:500-1:5000; IHC: 1:20-1:200

Gene ID:

Gene Location: Cytoplasm, Nucleus