

## KD-Validated Anti-Androgen receptor Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1169

#### **Specification**

Gene Name

#### KD-Validated Anti-Androgen receptor Rabbit Monoclonal Antibody - Product Information

Application WB, FC, ICC Primary Accession P10275

Reactivity
Clonality
Isotype

Human, Mouse
Monoclonal
Rabbit IgG

Calculated MW Predicted, 99 kDa , observed, 110 kDa

KDa AR

Aliases AR; Androgen Receptor; NR3C4;

Dihydrotestosterone Receptor; HUMARA; SMAX1; DHTR; AIS; Nuclear Receptor Subfamily 3 Group C Member 4; SBMA; Spinal And Bulbar Muscular Atrophy; Testicular Feminization; Kennedy Disease;

HYSP1; AR8; TFM; KD

Immunogen A synthesized peptide derived from human

**Androgen Receptor** 

# KD-Validated Anti-Androgen receptor Rabbit Monoclonal Antibody - Additional Information

Gene ID 367

**Other Names** 

Androgen receptor, Dihydrotestosterone receptor, Nuclear receptor subfamily 3 group C member 4, AR, DHTR, NR3C4

#### KD-Validated Anti-Androgen receptor Rabbit Monoclonal Antibody - Protein Information

Name AR

Synonyms DHTR, NR3C4

#### **Function**

Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues (PubMed:<a href="http://www.uniprot.org/citations/19022849" target="\_blank">19022849</a>). Transcription factor activity is modulated by bound coactivator and corepressor proteins like ZBTB7A that recruits NCOR1 and NCOR2 to the androgen response elements/ARE on target genes, negatively regulating androgen receptor signaling and androgen-induced cell proliferation (PubMed:<a href="http://www.uniprot.org/citations/20812024" target="\_blank">20812024</a>). Transcription activation is also down-regulated by NROB2. Activated, but not phosphorylated, by HIPK3 and ZIPK/DAPK3.



#### **Cellular Location**

Nucleus. Cytoplasm Note=Detected at the promoter of target genes (PubMed:25091737) Predominantly cytoplasmic in unligated form but translocates to the nucleus upon ligand-binding. Can also translocate to the nucleus in unligated form in the presence of RACK1.

#### **Tissue Location**

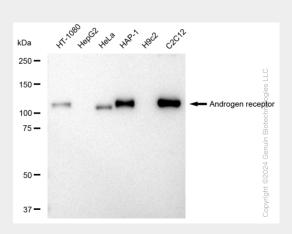
[Isoform 2]: Mainly expressed in heart and skeletal muscle.

#### KD-Validated Anti-Androgen receptor Rabbit Monoclonal Antibody - Protocols

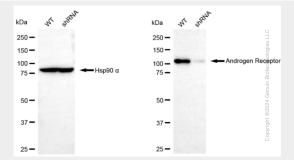
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### KD-Validated Anti-Androgen receptor Rabbit Monoclonal Antibody - Images



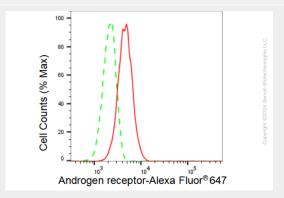
Western blotting analysis using anti-Androgen receptor antibody (Cat#AGI1169). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Androgen receptor antibody (Cat#AGI1169, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



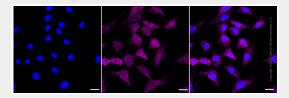
Western blotting analysis using anti-Androgen Receptor antibody (Cat#AGI1169). Androgen Receptor expression in wild type (WT) and Androgen Receptor shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates.  $\beta$ -Tubulin serves as a loading control. The blot was incubated with



anti-Androgen Receptor antibody (Cat#AGI1169, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Androgen receptor expression in C2C12 cells using Androgen receptor antibody (Cat#AGI1169, 1:2,000). Green, isotype control; red, Androgen receptor.



Immunocytochemical staining of C2C12 cells with Androgen receptor antibody (Cat#AGI1169, 1:1,000). Nuclei were stained blue with DAPI; Androgen receptor was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Very low. Scale bar: 20  $\mu$ m.