

## Androgen receptor Rabbit mAb

Catalog No: #48858

Package Size: #48858-1 50ul #48858-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

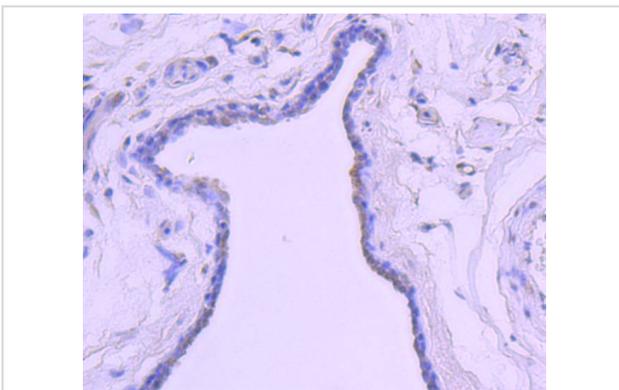
## Description

Product Name	Androgen receptor Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST0453
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	AIS antibody ANDR_HUMAN antibody Androgen nuclear receptor variant 2 antibody Androgen receptor (dihydrotestosterone receptor; testicular feminization; spinal and bulbar muscular atrophy; Kennedy disease) antibody Androgen receptor antibody androgen receptor splice variant 4b antibody AR antibody AR8 antibody DHTR antibody Dihydro testosterone receptor antibody Dihydrotestosterone receptor (DHTR) antibody Dihydrotestosterone receptor antibody HUMARA antibody HYSP1 antibody KD antibody Kennedy disease (KD) antibody NR3C4 antibody Nuclear receptor subfamily 3 group C member 4 (NR3C4) antibody Nuclear receptor subfamily 3 group C member 4 antibody SBMA antibody SMAX1 antibody Spinal and bulbar muscular atrophy (SBMA) antibody Spinal and bulbar muscular atrophy antibody Testicular Feminization (TFM) antibody TFM antibody
Accession No.	Swiss-Prot#:P10275
Calculated MW	99 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

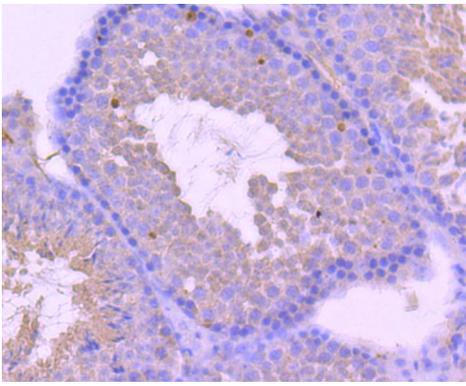
## Application Details

WB: 1:500-1:1000IHC: 1:50-1:100ICC: 1:50-1:200

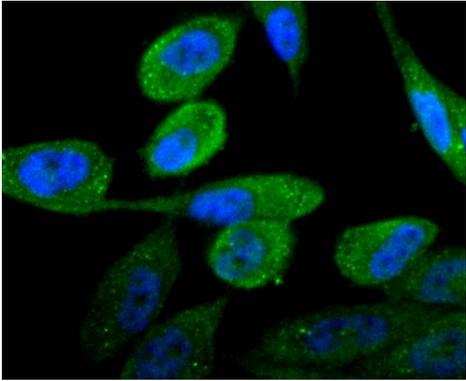
## Images



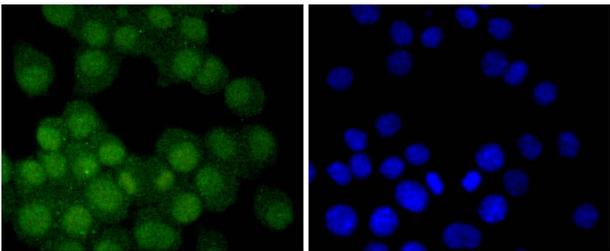
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Androgen receptor antibody. Counter stained with hematoxylin.



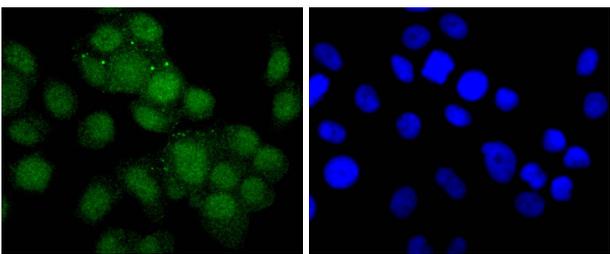
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Androgen receptor antibody. Counter stained with hematoxylin.



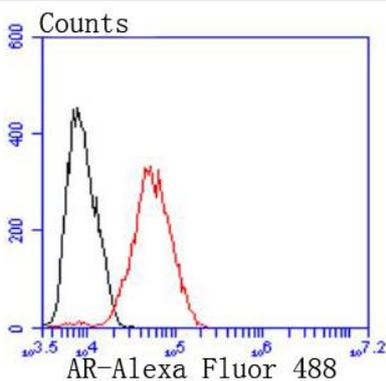
ICC staining Androgen receptor in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Androgen receptor in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Androgen receptor in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of MCF-7 cells with Androgen receptor antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

## Background

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Androgens exhibit a wide range of effects on the development, maintenance and regulation of male phenotype and male reproductive physiology. The androgen receptor (AR) is a member of the steroid superfamily of ligand-dependent transcription factors. ARs bind the two biologically active androgens, testosterone (T) and dihydrotestosterone (DHT), with high and nearly identical affinities; however, the rates of association and dissociation of T are about three times more rapid than those of DHT. This difference has resulted in speculation as to whether these differences in binding kinetics could account for the different physiological effects of T and DHT. A striking feature of AR is its rapid degradation in the absence of ligand. It is now well established that androgen binding results in an at least six-fold increase in androgen stability and that ligand-induced stabilization of AR is highly androgen- specific.

## References

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1. Ma Q et al. A Novel Missense Mutation in USP26 Gene Is Associated With Nonobstructive Azoospermia. *Reprod Sci* 23:1434-41 (2016).
2. Venant H et al. The Sphingosine Kinase 2 Inhibitor ABC294640 Reduces the Growth of Prostate Cancer Cells and Results in Accumulation of Dihydroceramides In Vitro and In Vivo. *Mol Cancer Ther* 14:2744-52 (2015).

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.