

À des fins de recherche uniquement

# Anticorps Polyclonal de lapin anti-androgen receptor



Numéro de catalogue: 22089-1-AP

Phare

37 Publications

## Informations de base

Numéro de catalogue: 22089-1-AP	Numéro d'acquisition GenBank: BC132975	Méthode de purification: Purification par affinité contre l'antigène
Taille: 150ul, Concentration: 850 µg/ml by Nanodrop;	Identification du gène (NCBI): 367	Dilutions recommandées: WB 1:5000-1:50000 IHC 1:200-1:800 IF 1:50-1:500
Hôte: Lapin	Nom complet: androgen receptor	
Isotype: IgG	MW calculé: 914 aa, 99 kDa	
Immunogen Catalog Number: AG17291	MW observés: 75-80 kDa, 110-120 kDa	

## Applications

### Applications testées:

IF, IHC, WB, ELISA

### Demandes citées:

IF, IHC, WB

### Spécificité de l'espèce:

Humain, rat, souris

### Espèces citées:

Humain, rat, souris

### Contrôles positifs:

WB : cellules LNCaP, cellules HepG2, cellules MCF-7, cellules NIH/3T3, tissu cardiaque de rat, tissu cardiaque de souris

IHC : tissu de cancer de la prostate humain,

IF : tissu de cancer de la prostate humain,

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9,0; (\*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.**

## Informations générales

Androgen receptor (AR) is a steroid hormone receptor for androgenic hormones such as 17β-Hydroxy-3-oxo-4-androstene and DHT. AR plays a vital role in developing and maintaining male sex phenotypes as well as an additional role in regulating bone metabolism. 1.What is the molecular weight of AR? Are there any isoforms of AR? The molecular weight of full-length androgen receptor (AR-B) is 110 kDa. An additional variant, AR-A, has an 87 kDa size and lacks the N-terminal 187 amino acids of AR-A (PMID: 8108393). Recently, more splice variants of AR have been discovered, raising protein products of around 80 kDa length (PMID: 19244107), as well as an AR45 variant of 45 kDa size (PMID: 15634333). AR splice variants differ in their cell line-specific expression (PMID: 24570075). 2.What is the subcellular localization of AR? AR can be present in either or both of the cytoplasm and nucleus. In androgen-deprived cells, AR is found predominantly in the cytoplasm, while stimulation by androgens causes enrichment of androgen-bound AR in the nucleus. AR shuttles between the cytoplasm and nucleus and its phosphorylation state has an impact on the subcellular localization (PMID: 16282370). 3.Is AR post-translationally modified? Post-translational modifications of the AR include phosphorylation, acetylation, methylation, SUMOylation, and ubiquitination (PMID: 21820033). These modifications have an impact on receptor stability, activity, and can change the observed molecular weight of the AR. 4.How to study AR signaling in cell culture? It is important to control levels of cell stimulation while also looking at AR signaling. Fetal bovine serum (FBS) that is typically used in cell culture contains low levels of 17β-Hydroxy-3-oxo-4-androstene that are enough to stimulate the growth of prostate cells (PMID: 19676093), including the LNCaP cell line that is a commonly used human prostatic carcinoma cell model (PMID: 6831420). One possibility for complete 17β-Hydroxy-3-oxo-4-androstene deprivation is to use charcoal stripped FBS that removes lipophilic agents, including androgens. It is also not recommended to use phenol red in your medium because it is a weak estrogen (PMID: 3458212). Cell stimulation is often conducted by DHT. 5.What is the role of AR in prostate cancer? AR plays a key role in the development and physiology of the prostate gland, and also cancer progression (PMID: 15082523). Mutations in AR altering ligands have been observed. The progression of the prostate cancer depends on AR activity and therefore blocking AR activity or lowering androgen levels is a key step related to androgen deprivation therapy (ADT).

## Publications notables

Autrice	Pubmed ID	Journal	Application
Xiao Meng Zhang	33062708	J Diabetes Res	WB
Xiang Zhou	36308879	Ecotoxicol Environ Saf	WB,IF
Ying Ren	31645658	Acta Pharmacol Sin	WB

## Stockage

### Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

### Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

**\*\*\* Les 20ul contiennent 0.1% de BSA.**

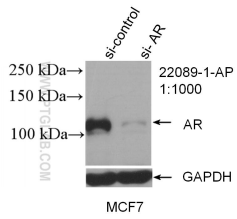
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
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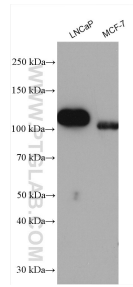
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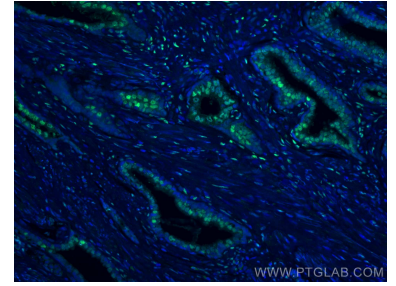
## Données de validation sélectionnées



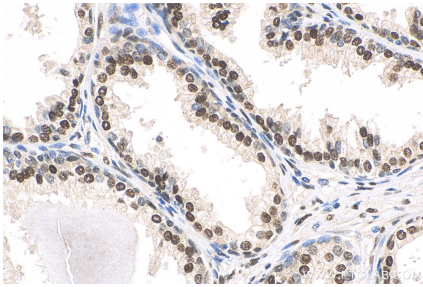
WB result of androgen receptor antibody (22089-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-androgen receptor transfected MCF-7 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 22089-1-AP (androgen receptor antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using androgen receptor antibody (22089-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 22089-1-AP (androgen receptor antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).