

## Product datasheet for **CF809124**

### Androgen Receptor (AR) Mouse Monoclonal Antibody [Clone ID: OTI3C5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3C5
Applications:	IHC, WB
Recommended Dilution:	WB 1:200~2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 420-659 of human AR(NP_000035) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	99 kDa
Gene Name:	androgen receptor
Database Link:	<a href="#">NP_000035</a> <a href="#">Entrez Gene 11835 Mouse</a> <a href="#">Entrez Gene 24208 Rat</a> <a href="#">Entrez Gene 367 Human</a> <a href="#">P10275</a>



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**Background:**

The androgen receptor gene is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

**Synonyms:**

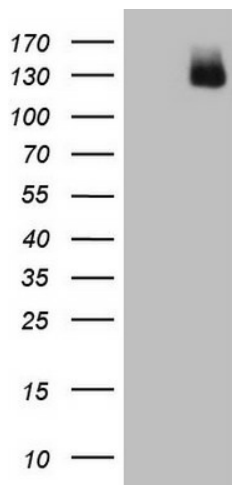
AIS; AR8; DHTR; HUMARA; HYSPI; KD; NR3C4; SBMA; SMAX1; TFM

**Protein Families:**

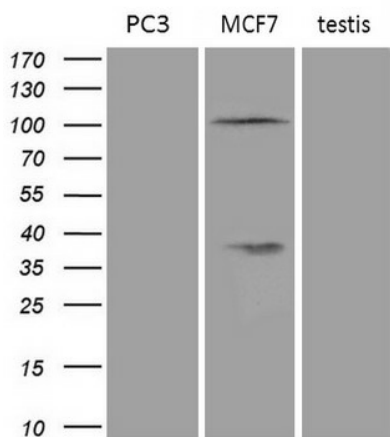
Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:**

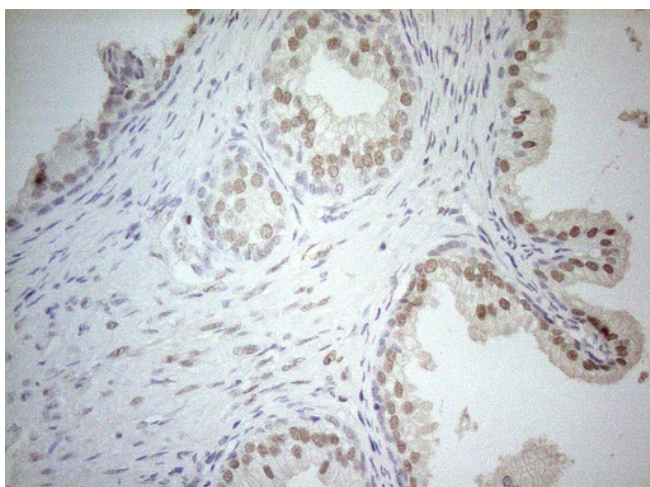
Oocyte meiosis, Pathways in cancer, Prostate cancer

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AR ([RC215316], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AR (1:2000). Positive lysates [LY400012] (100ug) and [LC400012] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 2 different cell lines and 1 human testis lyste by using anti-AR monoclonal antibody (PC-3:human; MCF7: human;Testis:human) (1:200).



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-AR mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809124]) (1:150)