



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti-Human Androgen Receptor (AR) Antibody

**Catalog No.**  
130-10082

**Isotype/Clone:**  
Mouse IgG1/3C6-F12-F11

**Species:**  
Human

**Accession No:**  
NP\_000035

### Description

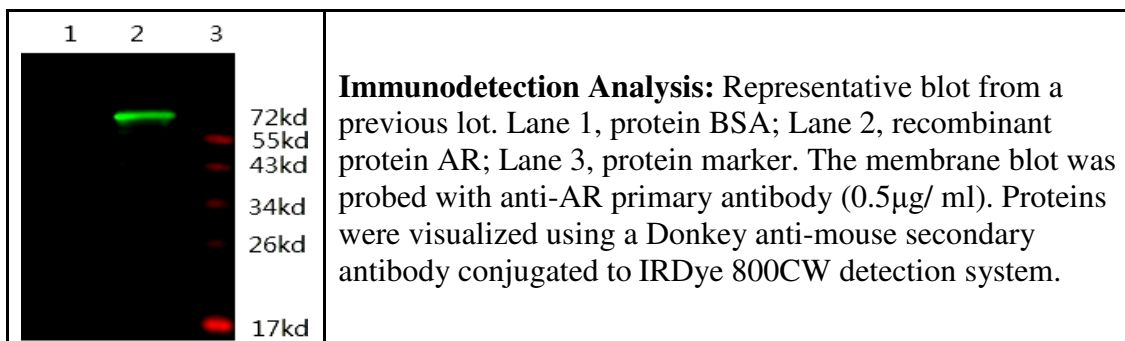
The androgen receptor (AR), also known as NR3C4 (nuclear receptor subfamily 3, group C, member 4), is a type of nuclear receptor which is activated by binding of either of the androgenic hormones, testosterone or dihydrotestosterone. The androgen receptor is most closely related to the progesterone receptor, and progestins in higher dosages can block the androgen receptor. The main function of the androgen receptor is as a DNA binding transcription factor which regulates gene expression. However, the androgen receptor has other functions as well. Androgen regulated genes are critical for the development and maintenance of the male sexual phenotype.

### Applications

**Table Summary of antibody applications and working conditions**

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			12.5ng/ml
Western Blotting	*			1:2000
Immunohistology - frozen			*	
Immunohistology -paraffin			*	

**Note:** Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.



**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Preparation**

Immunogen was recombinant protein derived from AR. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein G/A affinity chromatography.

### **Specificity**

The Mouse anti-human AR antibody specifically detects the target derived from human recombinant protein at various concentrations. Cross reactivity with mouse and rat are expected from sequence similarity.

### **Reconstitution**

Product is supplied as a powder obtained from lyophilization of purified antibody in PBS without preservatives. Reconstitute the antibody with sterile 1 x PBS to a final concentration of 1 mg/ml.

### **Storage**

Store at 4°C if intended for use within one month, otherwise, store at -20°C to -80°C. The lyophilized antibody is stable for at least 18 months after the date of receipt when stored at -20°C to -80°C. After reconstitution, it can be aliquoted and stored frozen at -20°C to -80°C in a manual defrost freezer for 6 months without detectable loss of activity. Upon reconstitution, the antibody can also be stored for 1 month at 4°C. **Please avoid freeze-thaw cycles, as this will lower the activity of the antibody.**

### **Reference**

1. Vlahopoulos S, Zimmer WE, Jenster G, Belaguli NS, Balk SP, Brinkmann AO, Lanz RB, Zoumpourlis VC, Schwartz RJ (2005). "Recruitment of the androgen receptor via serum response factor facilitates expression of a myogenic gene". *J. Biol. Chem.* **280** (9): 7786–92
2. Chang CS, Kokontis J, Liao ST (1988). "Molecular cloning of human and rat complementary DNA encoding androgen receptors". *Science* **240** (4850): 324–6.

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