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# Androgen Receptor (Clone SP107)

## Rabbit Monoclonal Antibody

**Specificity:** Human. Others-not tested

**Immunogen:** Synthetic peptide derived from near N-terminus of human AR

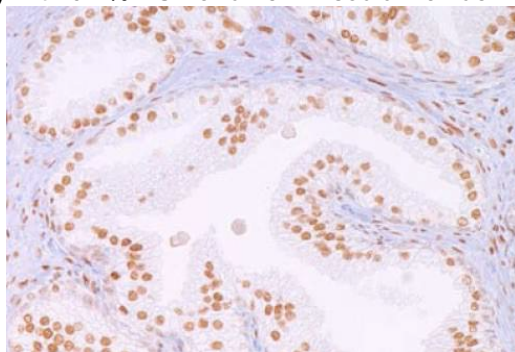
**Ig Class:** Rabbit IgG

**Storage:** Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months

**Staining procedures:** Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit IgG detection system. *Working dilution:* 1:100; *Positive Control:* Prostate or breast carcinomas. *Cellular Localization:* Nuclear. *Intended Use:* In Vitro Diagnosis (IVD).

**Description:** Androgen receptor (AR) belongs to the super-family of nuclear hormone receptors that employ complex molecular mechanisms to guide the development and physiological functions of their target tissues. Androgen receptor function plays a pivotal role in normal prostate development and physiology as well as prostate tumorigenesis. Androgen stimulation results in cell proliferation in both developing prostate and the malignant prostate. The transcriptional activity of the AR is modulated by a large and growing number of interacting proteins that function as co-activators and co-repressors. Androgen Receptor a phosphoprotein, and also regulates mitogen-activated protein kinase (MAP kinase). The inhibition of the MEK1/2 pathway correlates directly with a change in phosphorylation state of the androgen receptor. In prostate cancer, AR has been proposed as a marker of hormone-responsiveness.

**Supplied As:** Purified antibody with 0.2% BSA and 15mM sodium azide.



Formalin-fixed, paraffin-embedded human prostate tissue stained with anti-AR receptor using peroxidase conjugate and DAB chromogen. Note nuclear staining of glandular cells

Cat. #Z2139 (1.0 ml)

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