# Medaysis

## Mouse Anti-Androgen Receptor [AR441]: MC0609, MC0609RTU7

#### Intended Use: For Research Use Only

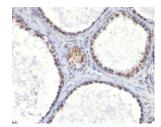
**Description:** Androgen receptor (AR) is a member of the steroid receptor superfamily that is essential for the growth of prostate cancer cells. It has been reported that tyrosine phosphorylation of AR is induced by growth factors and elevated in hormone-refractory prostate tumors. Data suggest that growth factors and their downstream tyrosine kinases, which are elevated during hormone-ablation therapy, can induce tyrosine phosphorylation of AR. Such modification may be important for prostate tumor growth under androgen-depleted conditions. Cellular signaling occurs following androgen binding to the AR and translocation to the nucleus. This activated complex associates with androgen-responsive elements contained in the DNA sequence of target genes, affecting the transcriptional activity of these genes. AR antibody labels epithelial cells and stromal cells in normal prostate. AR reactivity is also found in other types of cells, including epithelial cells of the breast and hepatocytes. In prostate cancer, AR expression is maintained throughout cancer progression. Immunohistochemistry of AR is useful for the evaluation of prostate cancer AR in routinely processed tissues. The majority of androgen independent hormone refractory prostate cancers express AR.

Specifications:	
Clone:	AR441
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human
Immunogen:	Synthetic peptide aa 302-318 (STEDTAEYSPFKGGYTK) of human androgen receptor
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., ICC/IF
Package:	

Description	Catalog No.	Size	
Androgen Receptor Concentrated	MC0609	1 ml	
Androgen Receptor Prediluted	MC0609RTU7	7 ml	

### **IHC Procedure\*:**

Inc Procedure*:			
Positive Control Tissue:	Prostate, prostate cancer		
Concentrated Dilution:	50-200		
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water		
	bath at 95°-99°C		
Incubation Time and Temp:	30-60 minutes @ RT		
Detection:	Refer to the detection system manual		
* Result should be confirmed by an established diagnostic procedure.			



FFPE human prostate carcinoma stained with anti-AR using DAB

#### **References:**

- 1. PYK2 via S6K1 regulates the function of androgen receptors and the growth of prostate cancer cells. Hsiao YH, et al. Endocr Relat Cancer 23:651-63, 2016.
- 2. Symmetrical and asymmetrical division analysis provides evidence for a hierarchy of prostate epithelial cell lineages. Wang J, et al. Nat Commun 5:4758, 2014.
- 3. Activation of Wnt/β-catenin signaling in a subpopulation of murine prostate luminal epithelial cells induces high grade prostate intraepithelial neoplasia. Valkenburg KC, et al. Prostate 74:1506-20, 2014.

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