

Rabbit Anti-Androgen Receptor [SP107]: RM0218

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.

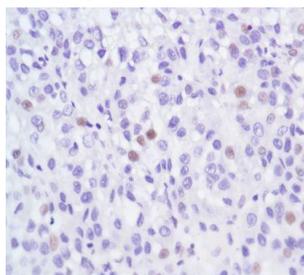
Specifications:

Clone: SP107
Source: Rabbit
Isotype: IgG
Reactivity: Human
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
Package:

Description	Catalog No.	Size
Androgen Receptor Concentrated	RM0218	1 ml

IHC Procedure*:

Positive Control Tissue: Prostate, prostate cancer
Concentrated Dilution: 50-100
Pretreatment: Citrate pH6.0, 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 HCC stained with anti-AR using DAB

References:

1. Salivary duct carcinoma: evaluation of treatment and outcome in a tertiary referral institute. Beck ACC, et al. Eur Arch Otorhinolaryngol 275:1885-1892, 2018.
2. Low KL, et al. Tyramide Signal Amplification Permits Immunohistochemical Analyses of Androgen Receptors in the Rat Prefrontal Cortex. Low KL, et al. J Histochem Cytochem 65:295-308, 2017.
3. A clinically applicable molecular classification for high-grade serous ovarian cancer based on hormone receptor expression. Feng Z, et al. Sci Rep 6:25408, 2016.

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