


Rabbit anti-human Androgen Receptor Monoclonal Antibody (Clone SP107)

REFERENCES AND PRESENTATIONS¹

- **ready-to-use (ml)**
MAD-000710QD-3
MAD-000710QD-7
MAD-000710QD-12
- **MD-Stainer presentations²**
MAD-000710QD-3/V
MAD-000710QD/V
- **concentrated**
MAD-000710Q - 1:100 recommended dilution

COMPOSITION

Anti-human Androgen Receptor (AR) rabbit monoclonal antibody purified from serum and prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide

INTENDED USE  Immunohistochemistry (IHC) on paraffin embedded tissues. Not tested on frozen tissues or Western-Blotting

CLONE: SP107

Ig ISOTYPE: Rabbit IgG

IMMUNOGEN: Synthetic peptide derived from near N-terminus of human AR.

SPECIES REACTIVITY: In vitro diagnostics in humans. Not tested in other species

DESCRIPTION AND APPLICATIONS:

The androgen receptor (AR) is a member of the steroid superfamily of ligand-dependent transcription factors. The expression of AR is reportedly inversely correlated with histologic grade, i.e., well differentiated prostate tumors showing higher expression than the poorly differentiated tumors. In prostate cancer, AR has been proposed as a marker of hormone-responsiveness while in breast lesions, both benign and malignant, a marker for apocrine differentiation.

IHC POSITIVE CONTROL: Prostate

VISUALIZATION: Cell nuclei

IHC RECOMMENDED PROCEDURE:

- 4µm thick section should be taken on charged slides; dry overnight at 60°C



¹ These references are for presentation in vials of Low Density Polyethylene (LDPE) dropper. In case the products are used in automated stainers, a special reference is assigned as follows:

- / L: Cylindrical screw-cap vials (QD-3 / L, QD-7 / L, QD-12 / L).
- / N: Polygonal screw-cap vials (QD-3 / N, QD-7 / N, QD-12 / N).

For different presentations (references / volumes) please contact the supplier.

² For Technical specifications for MD-Stainer, please contact your distributor.

- Deparaffinise, rehydrate and HIER (heat induced epitope retrieval) – boil tissue in the Pt Module using Master Diagnóstica EDTA buffer pH8³ for 20 min at 95°C. Upon completion rinse with 3-5 changes of distilled or deionised water followed by cooling at RT for 20 min
- Endogenous peroxidase block - Blocking for 10 minutes at room temperature using peroxidase solution (ref. MAD-021540Q-125)
- Primary antibody: incubate for 10 minutes [The antibody dilution (when concentrated) and protocol may vary depending on the specimen preparation and specific application. Optimal conditions should be determined by the individual laboratory]
- For detection use Master Polymer Plus Detection System (HRP) (DAB included; ref. MAD-000237QK)
- Counterstaining with haematoxylin and final mounting of the slide

STORAGE AND STABILITY:  up to 18 months;
 stored at 2-8°C. Do not freeze.

WARNINGS AND PRECAUTIONS:

1. Avoid contact of reagents with eyes and mucous membranes. If reagents come into contact with sensitive areas, wash with copious amounts of water.
2. This product is harmful if swallowed.
3. Consult local or state authorities with regard to recommended method of disposal.
4. Avoid microbial contamination of reagents.

SAFETY RECOMMENDATIONS

This product is intended for laboratory professional use only. The product is NOT intended to be used as a drug or for domestic purposes. The current version of the Safety Data Sheet for this product can be downloaded by searching the reference number at www.vitro.bio or can be requested at regulatory.md@vitro.bio.

BIBLIOGRAPHY

1. Selim A-G A, El-Ayat G and Wells C A. Androgen receptor expression in ductal carcinoma in situ of the breast: relation to oestrogen and progesterone receptors. Journal of Clinical Pathology. **55**: 14-16 (2002).
2. Barrack E R, Newmark J R, Hardy D O, et al.. Androgen receptor gene mutations in human prostate cancer. Journal of Cell Biochemistry. **16D**: 93 (1992).

³ Ref: MAD-004072R/D



3. Zhuang Y H, Blauer M, Pekki A, et al.. Subcellular location of androgen receptor in rat prostate, seminal vesicle and human osteosarcoma MG-63. *Journal of Steroid Biochemistry and Molecular Biology*. **41**: 693-696 (1992).
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8. Ruizeveld de Winter J A, et al. (1991) *J Histochem Cytochem* **39**: 927-936.
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