

Mab to Androgen Receptor



Clone Determination	F39.4
Category	Mouse monoclonal
Immunoglobulin Class	IgG1
Purification/Form	Purified IgG
Antigen for Immunization	Synthetic peptide (comprising amino acids 301-320 of human androgen receptor)
Description/Specificity	<p>The antibody is reactive with a 110 kD protein in a lysate from the LNCP cell line. The androgen receptor (AR) has been localized e.g. in the testis, (Sertoli and Leydig cells), prostate, foreskin epidermis, fibroblasts, breast epithelium, sweat and apocrine glands and hepatocytes.</p> <p>Prostate cancers are very heterogeneous with regard to AR expression, the loss of androgen responsiveness is not paralleled by the loss of AR. Studies on AR distribution might be useful to study the role of AR in related disease processes.</p> <p>Antigen localization is nuclear.</p>
Application	<ul style="list-style-type: none">• Immunoblotting• Immunocytochemistry• Immunohistochemistry of frozen sections and paraffin-embedded tissue after microwave pretreatment
Positive Control	Testis
Working Dilution	1:5 – 1:10 for immunohistochemistry. Dilute immediately before use with PBS.
Storage	At 2 – 8°C or in aliquots at -20°C
Volume	1 ml; contains 0.1% sodium azide

Application on paraffin sections

- Fixation: Small tissue blocks should be fixed as soon as possible after removal, in 10% buffered formalin. The fixation time should not exceed 24 hours. During the embedding process temperatures must be kept below 60°C.
- Mount sections on slides coated with an appropriate medium (Vectabond, APES) at 37°C overnight followed by drying at 56°C for 60 minutes.
- Deparaffinize sections and rehydrate to distilled water.

Antigen retrieval

- Place slides in a coplin jar containing 0.01 M sodium citrate buffer, pH 6.0.
- Incubate for 3 x 5 minutes in a microwave oven (750W) with 1 min intervals.
- Quench sections for 30 min at room temperature.
- Rinse for 30 min in PBS.
- Block endogeneous peroxidase activity (0.3% H₂O₂ in 50% methanol).
- Apply prediluted receptor antibody.
- Continue immunohistochemical staining procedure with conjugate and substrate reaction.

References

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- Ruizeveld de Winter JA et al. Androgen receptor expression in human tissues: an immunohistochemical study. *J Histochem Cytochem* 39, 927-936 (1991)
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Cat. No. 16041