



## Androgen Receptor

**CATALOG NUMBER:** MUB0105S

**CLONE:** F39.4.1

**SPECIES / ISOTYPE:** mouse IgG1

**PRODUCT FORM:** culture supernatant of mouse monoclonal antibody

### BACKGROUND

Androgen Receptor (AR) is localized in Sertoli and Leydig cells in the testis, in the prostate, in foreskin pidermis, fibroblasts, breast epithelium, sweat and apocrine glands and in hepatocytes. Prostate cancers are very heterogeneous with regard to Androgen Receptor expression. The loss of androgen responsiveness is not paralleled to the loss of Androgen Receptor.

### SOURCE

F39.4.1 is a mouse monoclonal IgG1 antibody derived by fusion of Sp 2/0 mouse myeloma cells with spleen cells from a BABL/c mouse immunized with a synthetic peptide sequence comprising amino acids 301-320 of human androgen receptor.

### PRODUCT

Each vial contains 1 ml of culture supernatant of monoclonal antibody containing 0.09% sodium azide.

### SPECIFICITY

Immunoblotting: the antibody is reactive with a 110 kD nuclear protein, for example in a lysate from the LNCaP cell line.

Useful on frozen sections, cell preparations and paraffin sections (after a microwave retrieval step). Dilute 1:5 - 1:10 before use with PBS or Tris-HCl pH 7.4. When applying an indirect method. For the ABC method the dilution can be 5-10x higher, but the optimal dilution should be tested by serial dilution.

### SPECIES REACTIVITY

Human.

Positive control: testis.

### STORAGE

Store undiluted antibody at 2-8°C (until expiry date).

For prolonged storage: store aliquots at -20°C.

### REFERENCES

1. Janssen, P.J., Brinkmann, A. O., Boersma W.J., Van Der Kwast, T.H. (1994). Immunohistochemical Detection of the Androgen Receptor with Monoclonal Antibody F39.4 in Routinely Processed, Paraffin-embedded Human Tissues After Microwave Pre-treatment. *The Journal of Histochemistry and Cytochemistry* 42, 1169-75.
2. Gregory, C.W., Hamil, K.G., Desok, K., Hall, S.H., Pretlow, T.G., Mohler, J.L., French, F.S. (1998). Androgen Receptor Expression in Androgen-independent Prostate Cancer Is Associated with Increased Expression of Androgen-regulated Genes. *Cancer Research* 58, 5718-24.

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### WARNING and CAUTION

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals.

This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water.

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