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Androgen Receptor (Marker of Androgen Dependence) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone AR441 + DHTR/882] Catalog # AH11601

Product Information

Application IHC, IF P10275 **Primary Accession** 367, 496240 Other Accession Reactivity Human Host Mouse Clonality Monoclonal Isotype Mouse / IgG's **Clone Names** AR441 + DHTR/882

Calculated MW 99188

Additional Information

Gene ID 367

Other Names Androgen receptor, Dihydrotestosterone receptor, Nuclear receptor subfamily

3 group C member 4, AR, DHTR, NR3C4

Application Note IHC~~1:100~500 IF~~1:50~200

Storage Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions Androgen Receptor (Marker of Androgen Dependence) Antibody - With BSA

and Azide is for research use only and not for use in diagnostic or therapeutic

procedures.

Protein Information

Name AR

Synonyms DHTR, NR3C4

Function Steroid hormone receptors are ligand-activated transcription factors that

regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues (PubMed:<u>19022849</u>). Transcription factor activity is modulated by bound coactivator and corepressor proteins like ZBTB7A that recruits NCOR1 and NCOR2 to the androgen response elements/ARE on target genes, negatively regulating androgen receptor signaling and androgen-induced cell proliferation (PubMed:<u>20812024</u>). Transcription activation is also down-regulated by NROB2. Activated, but not

phosphorylated, by HIPK3 and ZIPK/DAPK3.

Cellular Location Nucleus. Cytoplasm Note=Detected at the promoter of target genes

(PubMed:25091737) Predominantly cytoplasmic in unligated form but translocates to the nucleus upon ligand-binding. Can also translocate to the

nucleus in unligated form in the presence of RACK1.

Tissue Location [Isoform 2]: Mainly expressed in heart and skeletal muscle.

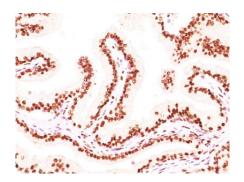
Background

Recognizes a protein of 110kDa, which is identified as androgen receptor (AR). It reacts with full length, and the newly described A form of the receptor. It does not cross react with estrogen, progesterone, or glucocorticoid receptors. The expression of AR is reportedly inversely correlated with histologic grade i.e. well differentiated prostate tumors show higher expression than the poorly differentiated tumors. In prostate cancer, AR has been proposed, as a marker of hormone-responsiveness and thus it may be useful in identifying patients likely to benefit from anti-androgen therapy. Anti-androgen receptor has been useful clinically in differentiating morpheaform basal cell carcinoma (mBCC) from desmoplastic trichoepithelioma (DTE) in the skin. This MAb is superb for staining of formalin/paraffin tissues.

References

J hne OA, et al. Androgen receptor and mechanism of androgen action. Ann Med 1993; 25:8

Images



Formalin-fixed, paraffin-embedded human Prostate Carcinoma stained with Androgen Receptor Monoclonal Antibody (AR441 + DHTR/882).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.