

Basic Information

Product Name	Anti-Androgen receptor/AR Antibody (Clone#OTI1D3)	
Gene Name	AR	
Source	Mouse	
Isotype	IgG1	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.	
Immunogen	Human recombinant protein fragment corresponding to amino acids 420-659 of human AR(NP_000035) produced in E.coli.	
concentration	500 ug/ml	
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)	
Observed MW	99KD	
Dilution Ratios	Western blot (WB): 1:2000 Immunohistochemistry in paraffin section (IHC):1:150	

Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

The androgen receptor gene is more than 90 kb long and codes for a protein that has 3 major functional domains: the N-terminal domain, DNA-binding domain, and androgen-binding domain. The protein functions as a steroid-hormone activated transcription factor. Upon binding the hormone ligand, the receptor dissociates from accessory proteins, translocates into the nucleus, dimerizes, and then stimulates transcription of androgen responsive genes. This gene contains 2 polymorphic trinucleotide repeat segments that encode polyglutamine and polyglycine tracts in the N-terminal transactivation domain of its protein. Expansion of the polyglutamine tract causes spinal bulbar muscular atrophy (Kennedy disease). Mutations in this gene are also associated with complete androgen insensitivity (CAIS). Two alternatively spliced variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

Selected Validation Data

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(Clone#OTI1D3)**

Catalog Number: MA00542

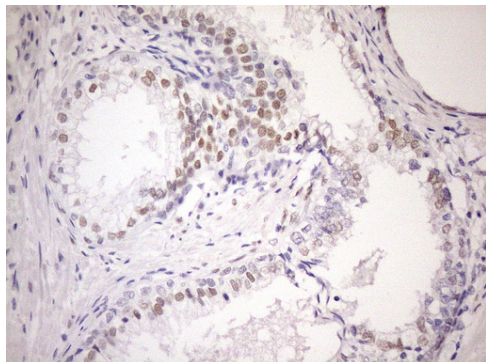


Figure 1. Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-AR mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, MA00542) (1:150)