

Datasheet for 200-301-H54**Androgen Receptor Antibody****Overview**

Description:	Anti-Androgen Receptor (MOUSE) Monoclonal Antibody - 200-301-H54
Item No.:	200-301-H54
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Anti-Androgen Receptor Antibody detects human Androgen receptor. The androgen receptor (AR) is an ~110 kDa androgen-dependent transcription factor that is a member of the steroid/nuclear receptor gene superfamily. The AR signaling pathway plays a key role in development and function of male reproductive organs, including the prostate and epididymis. AR also plays a role in nonreproductive organs, such as muscle, hair follicles, and brain. Abnormalities in the AR signaling pathway have been linked to a number of diseases, including prostate cancer, Kennedy's disease and male infertility. The PI3K/Akt signaling pathway plays an important role in regulating AR activity through phosphorylation of AR at Ser213/210 and Ser791/790. Growth factors or cytokines may induce phosphorylation of AR through the PI3K/Akt pathway. IGF-1 activates the phosphatidylinositol 3-kinase(PI3K)/AKT pathway in LNCap at high passage number and increases phosphorylation of AR at Ser213/210 (see western blot) and Ser791/790. The western blot results also show that inhibition of the PI3K/Akt pathway by LY294002 prior to incubation with IGF-1 suppressed AR phosphorylation at Ser213/210. Activation of the PI3K/Akt pathway is thought to have a survival role in prostate cancer by protecting cells from apoptosis. Anti-Androgen Receptor Antibody is ideal for investigators involved in neuroscience, cytokines and growth factors, and transcription factors.
Synonyms:	Androgen receptor, Dihydrotestosterone receptor, Nuclear receptor subfamily 3 group C member 4, AR, DHTR, NR3C4
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	156C135.2
Format:	IgG1

Target Details

Gene Name:	AR
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Androgen Receptor Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to amino acids near the n-terminus of the Androgen Receptor containing the serine 213 phosphorylated serine in the peptide sequence.
Purity/Specificity:	Anti-Androgen Receptor Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-Androgen Receptor from human and New World Monkey on 100% homology with the immunizing sequence. Cross-reactivity with Anti-Androgen Receptor from other sources has not been determined.
Relevant Links:	• UniProtKB - P10275 • NCBI - NP_000035.2 • GenelD - 367

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Androgen Receptor Antibody is tested for use in IHC-P and WB. Expect a band approximately 110kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	User Optimized
WB:	1-4 µg/mL

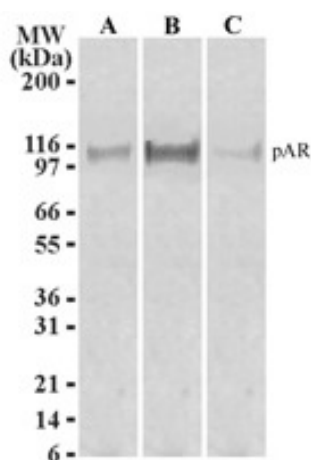
Formulation

Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Mouse Anti-Androgen Receptor antibody. Lane A: LNCaP untreated cells. Lane B: LNCaP cells treated with 100ng IGF-1 for 4hrs. Lane C: LNCaP cells incubated with 20µm LY294002 for 30min prior to treatment with 100ng IGF-1 for 4hrs. Load: 30 µg per lane. Primary antibody: Androgen Receptor antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~110 kDa for Androgen Receptor antibody. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.