# antibodies.com

# Datasheet for ABIN2857043 anti-Androgen Receptor antibody (N-Term)



3 Images



### Overview

Quantity:	100 μL			
Target:	Androgen Receptor (AR)			
Binding Specificity:	N-Term			
Reactivity:	Human			
Host:	Rabbit			
Clonality:	Polyclonal			
Conjugate:	This Androgen Receptor antibody is un-conjugated			
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)			

## Product Details

Immunogen:	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Androgen Receptor. The exact sequence is proprietary.
Isotype:	lgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Rabbit Polyclonal antibody to Androgen Receptor (androgen receptor) Androgen Receptor antibody [N1], N-term
Purification:	Purified by antigen-affinity chromatography.
Target Details	

Target:

Androgen Receptor (AR)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/7 | Product datasheet for ABIN2857043 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Target Details				
Alternative Name:	androgen receptor (AR Products)			
Background:	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.			
	Cellular Localization: Nucleus			

Molecular Weight:	99 kDa				
Gene ID:	367				
UniProt: P10275					
Pathways:	Nuclear Receptor Transcription Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Steroid Hormone Mediated Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Nuclear Hormone Receptor Binding, Chromatin Binding				

## Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations		
	should be determined by the researcher. Not tested in other applications.		
Restrictions:	For Research Use only		

## Handling

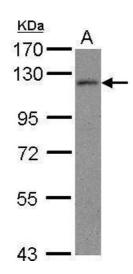
Format: Liquid			
Concentration:	0.47 mg/mL		
Buffer: 1XPBS pH 7, 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300			
Preservative:	ProClin		
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be		

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/7 | Product datasheet for ABIN2857043 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

## Handling

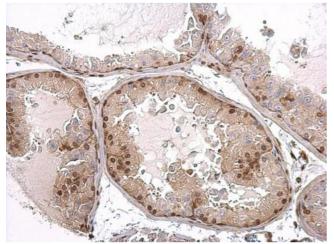
	handled by trained staff only.		
Storage:	4 °C,-20 °C		
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.		

Images



#### Western Blotting

**Image 1.** WB Image Sample (30 ug of whole cell lysate) A: U87-MG 7.5% SDS PAGE antibody diluted at 1:500



#### Immunohistochemistry

**Image 2.** IHC-P Image Androgen Receptor antibody [N1], Nterm detects Androgen Receptor protein at nucleus on mouse prostate by immunohistochemical analysis. Sample: Paraffin-embedded mouse prostate. Androgen Receptor antibody [N1], N-term, dilution: 1:500.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/7 | Product datasheet for ABIN2857043 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

#### Immunofluorescence

10 µm

**Image 3.** ICC/IF Image Androgen Receptor antibody [N1], Nterm detects Androgen Receptor protein at cytoplasm and nucleus by immunofluorescent analysis. Sample: SKNSH cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Androgen Receptor protein stained by Androgen Receptor antibody [N1], N-term , diluted at 1:500. Blue: Hoechst 33342 staining.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/7 | Product datasheet for ABIN2857043 | 09/11/2023 | Copyright antibodies-online. All rights reserved.





#### Successfully validated (Immunofluorescence (IF))

by School of Science and Engineering, Tulane University Report Number: 101746 Date: Dec 21 2017

Target:	Androgen Receptor		
Lot Number:	39476		
Method validated:	Immunofluorescence (IF)		
Positive Control:	prostate from inducible ARIacZ mouse		
Negative Control:	secondary antibody only		
Notes:	Passed. ABIN2857043 shows robust and specific staining of the AR in mouse prostate at a		
	dilution of 1:100. When the antibody is more dilute, the staining is very weak (1:250 or 1:500).		
	Further dilution (1:1000) eliminates the signal completely.		
Primary Antibody:	ABIN2857043		
Secondary Antibody:	goat anti-rabbit Cy3 conjugated antibody (Jackson ImmunoResearch)		
Protocol:	<ul> <li>Prostate Tissue from ARlacz transgenic mouse or wild type mouse is fixed via transcardial perfusion with 10% formalin and postfixed at 4°C overnight. Tissue from the transgenic mouse is used for a positive control while tissue from the wild-type mouse is used with the AR antibody.</li> <li>Dewaxing and rehydration: CitriSolv (Decon Laboratories, 1601H, 11068) 2x for 5min.</li> <li>100% ethanol 2x for 3min.</li> <li>95% ethanol 2x for 3min.</li> <li>70% ethanol 2x for 3min.</li> <li>Rinse well in distilled H<sub>2</sub>O.</li> <li>HIER:</li> </ul>		
	<ul> <li>Dilute 10x citrate buffer pH6.0 1:10 with dH<sub>2</sub>O and place in cases.</li> <li>Place one slide into each case in the preheated pressure cooker (Hamilton Beach).</li> <li>Antigen unmasking for 40min at 92-99°C.</li> <li>Remove slides from pressure cooker (but leave them in the cases with citrate buffer). Le slides cool down for 20min to approximately 30°C.</li> <li>Wash sections 2x for 5min with PBST rocking in a coplin jar.</li> <li>Wash sections for 5min with PBS rocking in a coplin jar.</li> <li>Permeabilize sections 10min in PBS + 0.2 Triton X-100 rocking in a coplin jar.</li> </ul>		

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 5/7 | Product datasheet for ABIN2857043 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

•	Wash sections 3x	for 5min	with PBST	rocking in a	coplin jar.
---	------------------	----------	-----------	--------------	-------------

- Aspirate liquid, circle tissue with a PAP pen and let dry.
- Block each section with 200µl blocking solution (PBS containing 1% BSA, 5% normal goat serum, and 0.02% Triton X-100) for 1h at RT.
- Aspirate blocking solution.
- Incubate sections with 100µl primary

rabbit anti-androgen receptor antibody (antibodies-online, ABIN2857043, 39476) diluted 1:100, 1:250, 1:500, and 1:1000 in 1:10 blocking solution ON at 4°C.

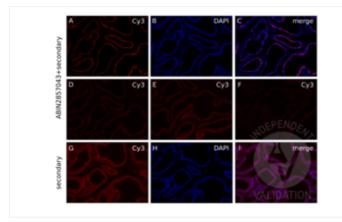
- rabbit anti-β-galactosidase antibody (Life Technologies, A1132, lot 1720092) diluted 1:500 in 1:10 blocking solution (in PBS) ON at 4°C.
- Include a no primary antibody negative controls.
- Aspirate the liquid.
- Wash sections 2x for 5min with PBST.
- Wash sections for 5min with PBST.
- Incubate sections in the dark with secondary goat anti-rabbit Cy3 conjugated antibody (Jackson ImmunoResearch) diluted 1:400 in PBS for 1h at RT.
- Aspirate the liquid in the dark.
- Wash sections in the dark 2x for 5min with PBST.
- Wash sections in the dark for 5min with PBST.
- Nuclear counterstaining with 14.3mM DAPI diluted 1:50000 in PBS for 5min at RT in the dark.
- Wash sections in the dark 2x for 5min with PBST.
- Mount sections in mounting medium (Invitrogen, P36930, lot 1811419) put 1 drop of medium on each section and cover with a coverslip in the dark; seal your slides with nail polish to avoid dehydration. Store sections in the dark at 4°C.
- Visualization on a microscope (Nikon, Eclipse Ti) with 20x objective; exposure time TRITC AR 100ms, DAPI 100ms.

#### Experimental Notes:

- ABIN2857043 shows robust staining for the AR at a 1:100 dilution (A). Dilution series was
  determined by manufacturer's recommendations. ABIN2857043 shows weak AR staining at
  1:250 (D) and 1:500 (E) with higher background while it does not work at 1:1000 (F).
- The staining for the AR is clearly nuclear. This is shown by colocalization with the nuclear stain DAPI (B and C). Additionally, the staining pattern seen with the AR antibody is similar to the staining pattern of β-galactosidase seen in the ARlacz transgenic mouse. The ARlacz transgenic mouse expresses β-galactosidase (β-gal) under the control of the AR promoter. Therefore, β-gal is expressed wherever the endogenous AR is expressed.
- Exclusion of the primary antibody eliminates nuclear staining, demonstrating that the AR staining is specific. Panels G and H show a prostate that was exposed to secondary antibody, but not primary antibody. The exposure time in Panel G is the same as that for the images shown in the previous figures. The exposure time in Panel H is 5x that shown in the previous figures. Although this isn't the best negative control to use, we do not have prostate or global AR knockout mice to use for a control.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 6/7 | Product datasheet for ABIN2857043 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

#### Image for Validation report #101746



## Validation image no. 1 for anti-Androgen Receptor (AR) (N-Term) antibody (ABIN2857043)

IF staining of prostate from inducible AR-lacZ mouse with ABIN2857043 shows robust staining for the AR at 1:100 dilution (A) and colocalization with nuclear DAPI staining (B, C). Staining at 1:250 (D) and 1:500 (E) dilutions is weaker with higher background. Staining at a dilution of 1:1000 (F) does not work. Non-specific signal in the secondary antibody-only control is both extracellular and nuclear. Exposure 5x of that used to image ABIN2857043 was used in G to capture the non-specific signal in the TRITC channel. H shows DAPI imaged at 100ms and I shows that the non-specific signal is both extracellular and nuclear, as shown by the partial colocalization of the nonspecific signal with DAPI.