

# Product Datasheet

## Androgen R/NR3C4 [p Ser213, p Ser210] Antibody (156C135.2) - BSA Free NB100-56603

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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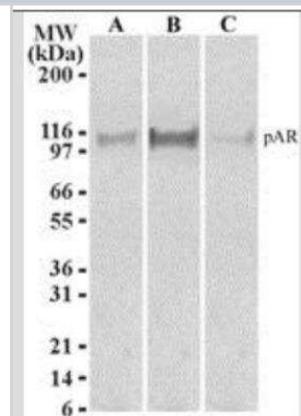
**NB100-56603**

Androgen R/NR3C4 [p Ser213, p Ser210] Antibody (156C135.2) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	156C135.2
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Mouse Androgen R/NR3C4 [p Ser213, p Ser210] Antibody (156C135.2) - BSA Free (NB100-56603) is a monoclonal antibody validated for use in IHC and WB. Anti-Androgen R/NR3C4 Antibody: Cited in 14 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	367
Gene Symbol	AR
Species	Human, Mouse, Rat, Canine, Primate
Reactivity Notes	Predicted cross-reactivity with Chimpanzee, Canine, Mouse, Porcine and Rat. Mouse reactivity reported in scientific literature (PMID: 21464326).
Specificity/Sensitivity	In IGF-1 stimulated LNCaP cells (passage number 38), a ~110 kDa band was observed. Please see Lin et al. 2003 for additional details. The serine phosphorylation site recognized by this antibody has been alternatively referred to Ser213 (Lee and Chang, 2003) and Ser210 (Lin et al, 2003). Variations in denotation can arise from how the sequence is counted in various GenBank accession numbers. The site is denoted as Ser213 in GenBank Accession No. A39248, which was used to design the immunogen.
Immunogen	This antibody was developed against a synthetic peptide corresponding to amino acids 207-221 (GRAREAS*GAPTSSKD) of human androgen receptor, containing the serine 213 phosphorylation site: GenBank Accession No. A39248. Note: S* refers to phosphorylated serine in the peptide sequence.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1 - 4 ug/mL, Immunohistochemistry 1:20 - 1:1000, Immunohistochemistry-Paraffin reported in scientific literature (Lin et al (2007))

## Images

Western Blot: Androgen R/NR3C4 [p Ser213, p Ser210] Antibody (156C135.2) [NB100-56603] - Analysis using Azide Free version of NB100-56603. LNCaP cells (passage number 38) were serum-starved for 2 days. After serum starvation, cells were (A) left untreated, (B) treated with 100 ng/ml IGF-1 for 4h, or (C) incubated with 20  $\mu$ m LY294002 for 30 mi



## Publications

Grypari IM, Logotheti S, Zolota V et al. The protein arginine methyltransferases (PRMTs) PRMT1 and CARM1 as candidate epigenetic drivers in prostate cancer progression *Medicine* 2021-09-10 [PMID: 34516499] (IF/IHC, Human)

McAllister MJ, McCall P, Dickson A et al. Androgen receptor phosphorylation at serine 81 and serine 213 in castrate-resistant prostate cancer *Prostate Cancer Prostatic Dis.* 2020-05-01 [PMID: 32358577] (WB)

Palazzolo I, Burnett BG, Young JE et al. Akt blocks ligand binding and protects against expanded polyglutamine androgen receptor toxicity. *Hum Mol Genet.* 2007-07-01 [PMID: 17470458] (WB)

### Details:

WB: Cos cells transfected or mock-transfected with AR sequences: Fig B-D.

Zellweger T, Sturm S, Rey S et al. Estrogen receptor B expression and androgen receptor phosphorylation correlate with a poor clinical outcome in hormone-naïve prostate cancer and are elevated in castration-resistant disease. *Endocr Relat Cancer.* 2013-05-21 [PMID: 23580588]

Kasina S, Macoska JA. The CXCL12/CXCR4 axis promotes ligand-independent activation of the androgen receptor. *Mol Cell Endocrinol.* 2012-04-04 [PMID: 22245379]

Lin HK, Hu YC, Yang L et al. Suppression versus induction of androgen receptor functions by the phosphatidylinositol 3-kinase/Akt pathway in prostate cancer LNCaP cells with different passage numbers. *J Biol Chem.* 2003-12-19 [PMID: 14555644]

Kirkegaard T, Edwards J, Tovey S et al. Observer variation in immunohistochemical analysis of protein expression, time for a change? *Histopathology.* 2006-06-01 [PMID: 16722926]

Lin SL, Chang D, Ying SY. Hyaluronan stimulates transformation of androgen-independent prostate cancer. *Carcinogenesis.* 2007-02-01 [PMID: 16864594] (IHC-P)

### Details:

Products cited: 1. Prostate Cancer Tissue Microarray (IMH-303): IHC (paraffin), Figs 2D, 4B and 6. The Androgen Receptor (Ser213/210) mAb (IMG-561) is used in Fig 6 2. Androgen Receptor (Ser213/210) mAb (IMG-561): IHC (paraffin), Fig 6. This antibody is u

Bhuiyan MM, Li Y, Banerjee S et al. Down-regulation of androgen receptor by 3,3'-diindolylmethane contributes to inhibition of cell proliferation and induction of apoptosis in both hormone-sensitive LNCaP and insensitive C4-2B prostate cancer cells. *Cancer Res.* 2006-10-15 [PMID: 17047070]

Cai H, Smith DA, Memarzadeh S et al. Differential transformation capacity of Src family kinases during the initiation of prostate cancer. *Proc Natl Acad Sci U S A.* 2011-04-19 [PMID: 21464326] (IHC-P, Mouse)

### Details:

Product cited: Androgen Receptor Ser213/210 (IMG-561). IHC (paraffin): Mouse urogenital sinus mesenchyme (UGSM) tissue, Fig 2.

Varisli L, Gonen-Korkmaz C, Syed HM et al. Androgen regulated HN1 leads proteosomal degradation of androgen receptor (AR) and negatively influences AR mediated transactivation in prostate cells. *Mol Cell Endocrinol.* 2012-03-05 [PMID: 22155408] (WB)

Chen S, Gulla S, Cai C, Balk SP. Androgen receptor serine 81 phosphorylation mediates chromatin binding and transcriptional activation. *J Biol Chem.* 2012-03-09 [PMID: 22275373] (WB, Human)

### Details:

Product cited: Androgen Receptor Ser213/210 (IMG-561). 1. WB: Human prostate cancer cells (LNCap) treated with nocodazole (NOCO) and CDK1 inhibitors (CGP74514A or RO-3306), Fig 1B.

More publications at <http://www.novusbio.com/NB100-56603>



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### **Products Related to NB100-56603**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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