AR Positive Control – Androgen Receptor

PRODUCT OVERVIEW

Product Name	Androgen Receptor (AR), Positive Control
Full Product Name	Phospho-Androgen Receptor Positive Control
Product Gene Name	AR positive control
Concentration	The concentration of the sample is empirically set so that 20 ul per lane in Western and blotted with corresponding affinity purified antibody will give a clean band with a high signal to noise ratio on the gel. (lot specific)
Preparation and Storage	Store at -20 degree C for long term storage
Matching Pairs	Antibody: Androgen Receptor (MBS5401210) Positive Control: Androgen Receptor (MBS5401291)
Matching Pairs	Antibody: Androgen Receptor (MBS5401211) Positive Control: Androgen Receptor (MBS5401291)
Molecular Weight	98,989 Da
Chromosome Location	Chromosome: X; NC_000023.10 (66763874..66950461). Location: Xq12
OMIM	300068
3D Structure	ModBase 3D Structure for P10275
Modification	Phosphorylated
Product Categories/Family for AR positive control	Biomolecule
Applications Tested/Suitable for AR positive control	Western Blot (WB)
Related Product Information for AR positive control	MBS5401291 is a positive control targeting AR. Also known as Phospho-Androgen Receptor Positive Control. Western Blot Positive Control- Antibody
Other Notes	Small volumes of AR positive control vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AR. It may not necessarily be applicable to this product.

NCBI GI #	21322252
NCBI GeneID	367
NCBI Accession #	NP_000035.2
UniProt Primary Accession #	P10275
UniProt Secondary Accession #	Q9UD95; A2RUN2; B1AKD7
UniProt Related Accession #	P10275
GenBank Nucleotide #	NM_000044.3
NCBI Official Full Name	androgen receptor isoform 1

NCBI Official Synonym Full Names	androgen receptor
NCBI Official Symbol	AR
NCBI Official Synonym Symbols	KD; AIS; TFM; DHTR; SBMA; HYSP1; NR3C4; SMAX1; HUMARA
UniProt Protein Name	Androgen receptor
UniProt Synonym Protein Names	Dihydrotestosterone receptor; Nuclear receptor subfamily 3 group C member 4
Protein Family	Allatostatin
UniProt Gene Name	AR
UniProt Synonym Gene Names	DHTR; NR3C4
UniProt Entry Name	ANDR_HUMAN
NCBI Protein Information	androgen receptor; dihydrotestosterone receptor; androgen nuclear receptor variant 2; nuclear receptor subfamily 3 group C member 4
NCBI Summary for AR	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]
UniProt Comments for AR	AR: a nuclear hormone receptor and transcription factor. Regulates gene expression and affects cellular proliferation and differentiation in target tissues. Two splice-variant isoforms have been described. Protein type: Nuclear receptor; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: Xq12 Cellular Component: nucleoplasm; protein complex; nuclear chromatin; cytoplasm; nucleus Molecular Function: protein dimerization activity; ligand-dependent nuclear receptor activity; zinc ion binding; androgen binding; beta-catenin binding; transcription factor binding; protein binding; androgen receptor activity; enzyme binding; DNA binding; chromatin binding; transcription factor activity; receptor binding Biological Process: prostate gland development; transcription initiation from RNA polymerase II promoter; intracellular receptor-mediated signaling pathway; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; signal transduction; protein oligomerization; activation of NF-kappaB transcription factor; negative regulation of integrin biosynthetic process; cell proliferation; cell-cell signaling; transport; positive regulation of cell proliferation; androgen receptor signaling pathway; positive regulation of transcription from RNA polymerase III promoter; gene expression; positive regulation of transcription from RNA polymerase II promoter; steroid hormone mediated signaling; positive regulation of integrin biosynthetic process; cell growth; sex differentiation; positive regulation of phosphorylation Disease: Androgen Insensitivity Syndrome; Prostate Cancer; Androgen Insensitivity, Partial; Hypospadias 1, X-linked; Spinal And Bulbar Muscular Atrophy, X-linked 1
Research Articles on AR	**1.** However, we found that both CAG and GGN androgen receptor alleles were not associated with the left hand, right hand, right minus left-hand or mean hand 2D:4D ratios.
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