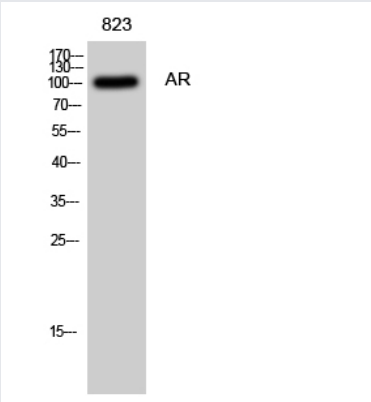
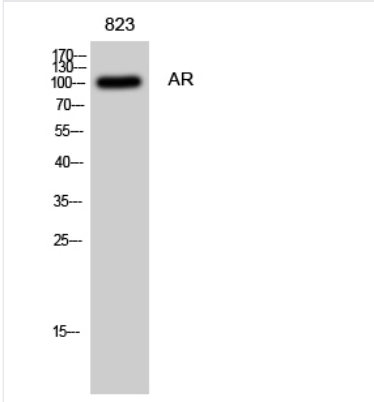
AR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AR, Polyclonal Antibody
Full Product Name	AR Polyclonal Antibody
Product Gene Name	anti-AR antibody
Product Synonym Names	AR; DHTR; NR3C4; Androgen receptor; Dihydrotestosterone receptor; Nuclear receptor subfamily 3 group C member 4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
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
Applications Tested/Suitable for anti-AR antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-AR antibody	Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Transcription factor activity is modulated by bound coactivator and corepressor proteins like ZBTB7A that recruits NCOR1 and NCOR2 to the androgen response elements/ARE on target genes, negatively regulating androgen receptor signaling and androgen-induced cell proliferation (PubMed:20812024). Transcription activation is also down-regulated by NR0B2. Activated, but not phosphorylated, by HIPK3 and ZIPK/DAPK3.
Other Notes	Small volumes of anti-AR antibody 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.
Searchable Terms for AR purchase	MBS9242749 is an antibody targeting AR. Also known as AR Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Wester Blot (WB) of anti-AR antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.



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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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