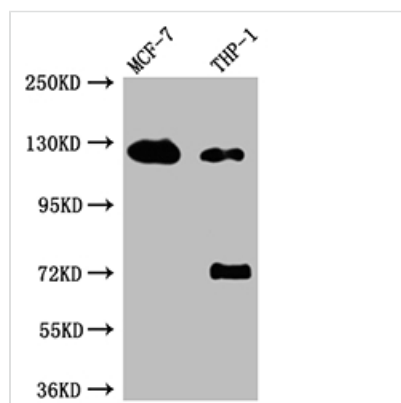




# AR Antibody

<b>Product Code</b>	CSB-RA217661A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P10275
<b>Immunogen</b>	A synthesized peptide derived from human Androgen Receptor
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
<b>Relevance</b>	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. Transcription activation is down-regulated by NR0B2. Activated, but not phosphorylated, by HIPK3 and ZIPK/DAPK3.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Epigenetics and Nuclear Signaling; Cancer; Developmental biology; Signal transduction
<b>Gene Names</b>	AR
<b>Accession NO.</b>	5G7

## Image



### Western Blot

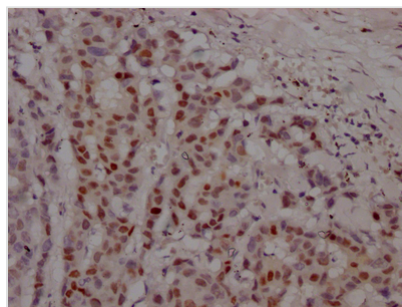
Positive WB detected in: MCF-7 whole cell lysate, THP-1 whole cell lysate

All lanes: Androgen Receptor antibody at 1:1000  
Secondary

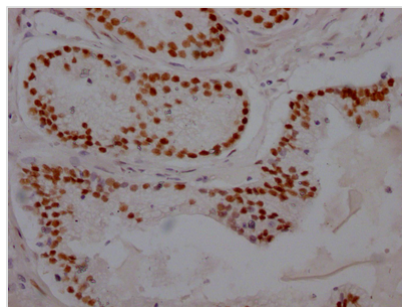
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 100, 45, 68, kDa

Observed band size: 125 kDa



IHC image of CSB-RA217661A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA217661A0HU diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

AR is a nuclear receptor transcription factor that regulates the cellular actions of androgens, the male sex steroids. It is found in a wide range of cells and tissues and has a role in the development and maintenance of the reproductive, musculoskeletal, cardiovascular, immunological, neurological, and hemopoietic systems, among others. Androgens can influence target gene transcription via the AR in a DNA binding-dependent manner, or they can activate fast, biological processes such as the phosphorylation of 2nd messenger signaling cascades in a non-DNA binding-dependent manner. Androgens and AR signaling are necessary for prostate development and homeostasis.

The recombinant AR antibody is a monoclonal antibody made in vitro using the AR antibody genes that are typically expressed from a plasmid in a stable mammalian cell line. The genes coding for the AR antibody will ultimately assemble into a fully functional antibody after translation. The synthesized antibody is the recombinant antibody against AR. It underwent purification using Affinity-chromatography. This recombinant AR antibody is suitable for use in the ELISA, WB, IHC to detect the AR protein from Human.