

Androgen receptor
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22418a

Specification

Androgen receptor - Product Information

Application	WB,E
Primary Accession	P10275
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit Ig
Calculated MW	99188

Androgen receptor - Additional Information

Gene ID 367

Other Names

Androgen receptor, Dihydrotestosterone receptor, Nuclear receptor subfamily 3 group C member 4, AR, DHTR, NR3C4

Target/Specificity

This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between amino acids from human.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Androgen receptor is for research use only and not for use in diagnostic or therapeutic procedures.

Androgen receptor - Protein Information

Name AR

Synonyms DHTR, NR3C4

Function Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues

(PubMed:[19022849](#)). 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.

Cellular Location

Nucleus. Cytoplasm Note=Detected at the promoter of target genes (PubMed:25091737)
Predominantly cytoplasmic in unligated form but translocates to the nucleus upon ligand-binding.
Can also translocate to the nucleus in unligated form in the presence of RACK1.

Tissue Location

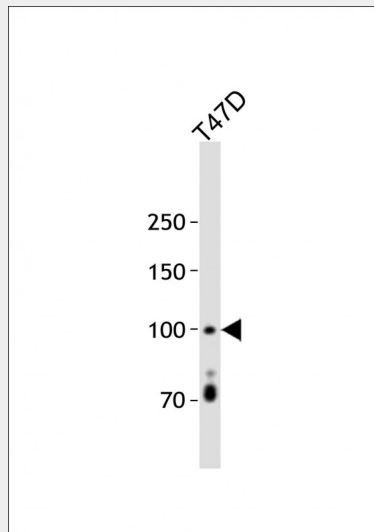
[Isoform 2]: Mainly expressed in heart and skeletal muscle.

Androgen receptor - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Androgen receptor - Images



All lanes: Anti-Androgen receptor at 1:1000 dilution + T47D whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 99 KDa Blocking/Dilution buffer: 5% NFDN/TBST.

Androgen receptor - Background

Steroid hormone receptors are ligand-activated transcription factors that regulate eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues (PubMed:19022849).

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.

Androgen receptor - References

- Lubahn D.B.,et al.Mol. Endocrinol. 2:1265-1275(1988).
Chang C.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:7211-7215(1988).
Tilley W.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:327-331(1989).
Lubahn D.B.,et al.Proc. Natl. Acad. Sci. U.S.A. 86:9534-9538(1989).
Govindan M.V.,et al.Mol. Endocrinol. 4:417-427(1990).