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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
E~~Use at an assay dependent concentration.

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.

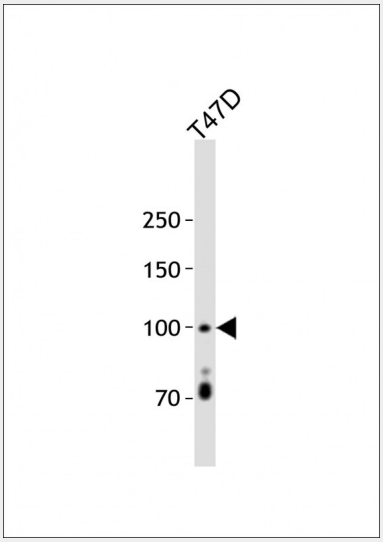
Tissue Location
[Isoform 2]: Mainly expressed in heart and skeletal muscle.

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 Cytomety
- Cell Culture

Androgen receptor - Images



All lanes: Anti-Androgen receptor at1:1000 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% NFDM/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).