Androgens exhibit a wide range of effects on the development, maintenance and regulation of male phenotype and make reproductive physiology. The androgen receptor (AR) is a member of the steroid superfamily of ligand-dependent transcription factors. ARs bind the two biologically active androgens, testosterone (T) and dihydrotestosterone (DHT), with high and nearly identical affinities; however, the rates of association and dissociation of T are about three times more rapid than those of DHT. This difference has resulted in speculation as to whether these differences in binding kinetics could account for the different physiological effects of T and DHT. A striking feature of AR is its rapid degradation in the absence of ligand. It is now well established that androgen binding results in an at least six-fold increase in androgen stability and that ligand-induced stabilization of AR is highly androgen-specific.

**CHROMOSOMAL LOCATION**

Genetic locus: AR (human) mapping to Xq12; Ar (mouse) mapping to X C3.

**SOURCE**

AR (C-19) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of AR of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-815 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-815 X, 200 µg/0.1 ml; as HRP conjugate for Western blotting, sc-815 HRP, 200 µg/1 ml; and as fluorescein (sc-815 FITC) or rhodamine (sc-815 TRITC) conjugates for immunofluorescence, 200 µg/1 ml.

**APPLICATIONS**

AR (C-19) is recommended for detection of androgen receptor of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AR (C-19) is also recommended for detection of AR in additional species, including equine, canine, bovine, porcine and avian.


AR (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of AR: 110 kDa.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.