

ARA54 (N-17): sc-25958

BACKGROUND

Androgens exhibit a wide range of effects on the development, maintenance and regulation of male phenotype and reproductive physiology in males. 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). ARA54 contains a RING finger and functions as an AR coactivator. Testis, thymus, spleen, colon, pro-state and uterus express ARA54 at high levels. ARA160 associates with an ATP-dependent chromatin remodeling factor known as the SNF/SWI complex. The FXXLF motif present in AR coactivators mediates their interaction with AR but not their transcription-related activity.

CHROMOSOMAL LOCATION

Genetic locus: RNF14 (human) mapping to 5q31.3; Rnf14 (mouse) mapping to 18 B3.

SOURCE

ARA54 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ARA54 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-25958 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-25958 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

ARA54 (N-17) is recommended for detection of ARA54 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).

ARA54 (N-17) is also recommended for detection of ARA54 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for ARA54 siRNA (h): sc-43618, ARA54 siRNA (m): sc-44878, ARA54 shRNA Plasmid (h): sc-43618-SH, ARA54 shRNA Plasmid (m): sc-44878-SH, ARA54 shRNA (h) Lentiviral Particles: sc-43618-V and ARA54 shRNA (m) Lentiviral Particles: sc-44878-V.

ARA54 (N-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

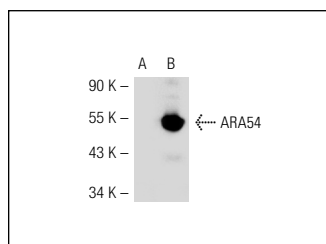
Molecular Weight of ARA54: 54 kDa.

Positive Controls: DU 145 cell lysate: sc-2268 or ARA54 (m): 293T Lysate: sc-123234.

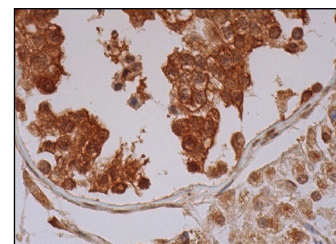
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



ARA54 (N-17): sc-25958. Western blot analysis of ARA54 expression in non-transfected: sc-117752 (A) and mouse ARA54 transfected: sc-123234 (B) 293T whole cell lysates.



ARA54 (N-17): sc-25958. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic, membrane and nuclear staining of cells in seminiferous ducts and cytoplasmic and nuclear staining of Leydig cells.

SELECT PRODUCT CITATIONS

1. Lan, K.C., et al. 2008. Expression of androgen receptor co-regulators in the testes of men with azoospermia. *Fertil. Steril.* 89: 1397-1405.

STORAGE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **ARA54 (B-10): sc-376701** or **ARA54 (B-1): sc-376285**, our highly recommended monoclonal alternatives to ARA54 (N-17).