

ARA54 (G-18): sc-25959

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, prostate 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.

REFERENCES

- Walsh, P.C., et al. 1974. Familial incomplete male pseudohermaphroditism type 2: decreased dihydro-testosterone formation in pseudovaginal perineo-scrotal hypospadias. *N. Engl. J. Med.* 291: 944-949.
- Imperato-McGinley, J., et al. 1974. Steroid 5 α -reductase deficiency in man: an inherited form of male pseudohermaphroditism. *Science* 186: 1213-1215.
- Garcia, J.A., et al. 1992. Cloning and chromosomal mapping of a human immunodeficiency virus 1 "TATA" element modulatory factor. *Proc. Natl. Acad. Sci. USA* 89: 9372-9376.
- Zhou, Z.X., et al. 1994. The androgen receptor: an overview. *Recent Prog. Horm. Res.* 49: 249-274.
- Kang, H.Y., et al. 1999. Cloning and characterization of human prostate coactivator ARA54, a novel protein that associates with the androgen receptor. *J. Biol. Chem.* 274: 8570-8576.

CHROMOSOMAL LOCATION

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

SOURCE

ARA54 (G-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ARA54 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-25959 P, (100 μ g 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-25959 X, 200 μ g/0.1 ml.

STORAGE

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

APPLICATIONS

ARA54 (G-18) 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 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (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 (G-18) 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 (G-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

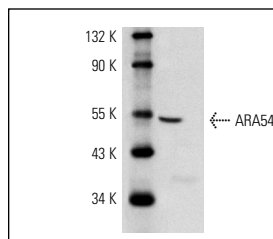
Molecular Weight of ARA54: 54 kDa.

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

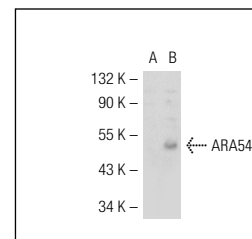
RECOMMENDED SECONDARY REAGENTS

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.

DATA



ARA54 (G-18): sc-25959. Western blot analysis of ARA54 expression in DU 145 whole cell lysate.



ARA54 (G-18): sc-25959. Western blot analysis of ARA54 expression in non-transfected: sc-117752 (A) and mouse ARA54 transfected: sc-123234 (B) 293T whole cell lysates.

RESEARCH USE

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