ARA54 (B-10): sc-376701



The Power to Question

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

- 1. Walsh, P.C., et al. 1974. Familial incomplete male pseudohermaphroditism type 2: decreased dihydrotestosterone formation in pseudovaginal perineoscrotal hypospadias. N. Engl. J. Med. 291: 944-949.
- 2. Imperato-McGinley, J., et al. 1974. Steroid 5α -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.

CHROMOSOMAL LOCATION

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

SOURCE

ARA54 (B-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 2-27 at the N-terminus of ARA54 of human origin.

PRODUCT

Each vial contains 200 μ g lgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-376701 X, 200 μ g/0.1 ml.

ARA54 (B-10) is available conjugated to agarose (sc-376701 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-376701 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376701 PE), fluorescein (sc-376701 FITC), Alexa Fluor® 488 (sc-376701 AF488), Alexa Fluor® 546 (sc-376701 AF546), Alexa Fluor® 594 (sc-376701 AF594) or Alexa Fluor® 647 (sc-376701 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376701 AF680) or Alexa Fluor® 790 (sc-376701 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376701 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

ARA54 (B-10) is recommended for detection of ARA54 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 (B-10) is also recommended for detection of ARA54 in additional species, including canine, bovine, porcine and avian.

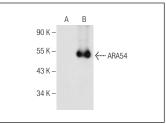
Suitable for use as control antibody for ARA54 siRNA (h): sc-43618, ARA54 siRNA (m): sc-44878, ARA54 shRNA Plasmid (h): sc-43618-SH, ARA54 shRNA Plasmid (m): sc-44878-SH, ARA54 shRNA (h) Lentiviral Particles: sc-43618-V and ARA54 shRNA (m) Lentiviral Particles: sc-44878-V.

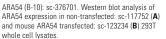
ARA54 (B-10) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

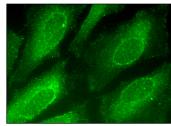
Molecular Weight of ARA54: 54 kDa.

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

DATA







ARA54 (B-10): sc-376701. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and cytoplasmic localization.

SELECT PRODUCT CITATIONS

 Oltion, K., et al. 2023. An E3 ligase network engages GCN1 to promote the degradation of translation factors on stalled ribosomes. Cell 186: 346-362.e17.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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