SANTA CRUZ BIOTECHNOLOGY, INC.

ARA160 (C-10): sc-398411

SANTA CRUZ BIOTECHNOLOGY

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. Imperato-McGinley, J., et al. 1974. Steroid 5α-reductase deficiency in man: an inherited form of male pseudohermaphroditism. Science 186: 1213-1215.
2. 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.
3. 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.
4. Zhou, Z.X., et al. 1994. The androgen receptor: an overview. Recent Prog. Horm. Res. 49: 249-274.

CHROMOSOMAL LOCATION

Genetic locus: TMF1 (human) mapping to 3p14.1; Tmf1 (mouse) mapping to 6 D3.

SOURCE

ARA160 (C-10) is a mouse monoclonal antibody raised against amino acids 811-1093 mapping at the C-terminus of ARA160 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ARA160 (C-10) is available conjugated to agarose (sc-398411 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-398411 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398411 PE), fluorescein (sc-398411 FITC), Alexa Fluor® 488 (sc-398411 AF488), Alexa Fluor® 546 (sc-398411 AF546), Alexa Fluor® 594 (sc-398411 AF594) or Alexa Fluor® 647 (sc-398411 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398411 AF680) or Alexa Fluor® 790 (sc-398411 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

STORAGE

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

APPLICATIONS

ARA160 (C-10) is recommended for detection of ARA160 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ARA160 siRNA (h): sc-37683, ARA160 siRNA (m): sc-37684, ARA160 shRNA Plasmid (h): sc-37683-SH, ARA160 shRNA Plasmid (m): sc-37684-SH, ARA160 shRNA (h) Lentiviral Particles: sc-37683-V and ARA160 shRNA (m) Lentiviral Particles: sc-37684-V.

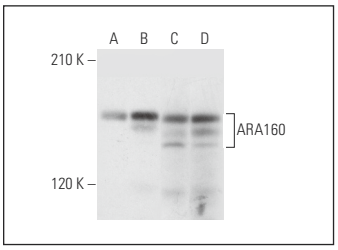
Molecular Weight of ARA160: 160 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

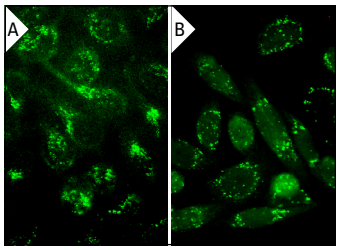
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ARA160 (C-10): sc-398411. Western blot analysis of ARA160 expression in HeLa (**A**), MCF7 (**B**), NTERA-2 cl.D1 (**C**) and Hep G2 (**D**) whole cell lysates.



ARA160 (C-10): sc-398411. Immunofluorescence staining of methanol-fixed HeLa cells showing Golgi apparatus localization (**A**). Immunofluorescence staining of formalin-fixed SW480 cells showing Golgi apparatus localization (**B**).

SELECT PRODUCT CITATIONS

1. Homma, Y. and Fukuda, M. 2021. Knockout analysis of Rab6 effector proteins revealed the role of VPS52 in the secretory pathway. Biochem. Biophys. Res. Commun. 561: 151-157.
2. Luo, C., et al. 2023. Sodium acetate promotes fat synthesis by suppressing TATA element modulatory factor 1 in bovine mammary epithelial cells. Anim. Nutr. 13: 126-136.

RESEARCH USE

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