Androgen receptor (AR) co-activator ARA70, also designated RFG and ELE1, is a putative co-activator that specifically enhances the activity of the androgen receptor. In human thyroid carcinomas, the Ret proto-oncogene fuses to ARA70 to form Ret/PTC3 by an intrachromosomal inversion of chromosome 10 in vivo. ARA70 is expressed as two isoforms, ARA70α and ARA70β. The shorter variant, ARA70β, results from an internal 985-bp deletion. ARA70α is widely expressed, and its expression is highest in testis and adipose tissues, whereas ARA70β is solely expressed in testis. ARA70α can function as a ligand-enhanced co-activator of PPARγ in adipocytes. However, PPARγ-ARA70 transactivation can be squelched by AR, which suggests cross talk between PPARγ- and AR-mediated response. ARA70β has no intrinsic transcription activation domain or histone acetyltransferase activity, but it interacts with histone acetyltransferase, p/CAF, CBP and p300/CBP-associated factors, and the basal transcription factor TFIIB. The interaction between ARA70 and AR occurs through the ligand-binding domain. The presence of ARA70 can enhance the androgenic activity of 17β-Estradiol (E2) and antiandrogens toward AR. ARA70 may be involved in prostate carcinogenesis and ovarian cancer, and may serve as a key mediator of estrogen-androgen synergism.

**REFERENCES**


**BACKGROUND**

**PRODUCT**

ARA70 (h): 293T Lysate: sc-113567

**APPLICATIONS**

ARA70 (h): 293T Lysate represents a lysate of human ARA70 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

**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 MarkerTM Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

**DATA**

ARA70 (D-22): sc-100991. Western blot analysis of ARA70 expression in non-transfected: sc-117752 (A) and human ARA70 transfected: sc-113567 (B) 293T whole cell lysates.

ARA70 (Q-19): sc-30968. Western blot analysis of enhanced human ARA70 expression in ARA70 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

**STORAGE**

Store at -20°C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

**REFERENCES**


**APPLICATIONS**

ARA70 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ARA70 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-tranfected 293T cells.

ARA70 (Q-19): sc-30968 is recommended as a positive control antibody for Western Blot analysis of enhanced human ARA70 expression in ARA70 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

**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 MarkerTM Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048.

**DATA**

ARA70 (D-22): sc-100991. Western blot analysis of ARA70 expression in non-transfected: sc-117752 (A) and human ARA70 transfected: sc-113567 (B) 293T whole cell lysates.

ARA70 (Q-19): sc-30968. Western blot analysis of enhanced human ARA70 expression in ARA70 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

**STORAGE**

Store at -20°C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

**REFERENCES**


