

RSRC2 (F-16): sc-102100

BACKGROUND

Esophageal squamous cell carcinoma (ESCC) is cancer of the flat cells lining the esophagus, and is currently the ninth most frequent cancer in the world. While environmental risk factors, such as alcohol drinking and cigarette smoking, increase chances of ESCC, several genes are believed to be involved in the origin and/or progression of ESCC. The proteins encoded by these genes include p53, DCC, DEC1, DLEC1, RSRC2, p16 and TGF β RII. RSRC2 (arginine/serine-rich coiled-coil protein 2) is a 434 amino acid protein that is believed to function as a transcription factor involved in cell proliferation. Expressed ubiquitously and localized to the nucleus, RSRC2 may serve as a tumor suppressor of esophageal cancer. Overexpression of RSRC2 in an ESCC cell line inhibits cell proliferation, while the loss of RSRC2 is associated with tumor progression. This suggests that RSRC2 is a potential target for esophageal cancer therapy. RSRC2 is expressed as two isoforms produced by alternative splicing.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RSRC2 (human) mapping to 12q24.31; Rsrc2 (mouse) mapping to 5 F.

SOURCE

RSRC2 (F-16) is a purified rabbit polyclonal antibody raised against RSRC2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

RSRC2 (F-16) is recommended for detection of RSRC2 of mouse, rat, human and canine 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), 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).

Suitable for use as control antibody for RSRC2 siRNA (h): sc-95973, RSRC2 siRNA (m): sc-153161, RSRC2 shRNA Plasmid (h): sc-95973-SH, RSRC2 shRNA Plasmid (m): sc-153161-SH, RSRC2 shRNA (h) Lentiviral Particles: sc-95973-V and RSRC2 shRNA (m) Lentiviral Particles: sc-153161-V.

Molecular Weight of RSRC2 isoform 1: 51 kDa.

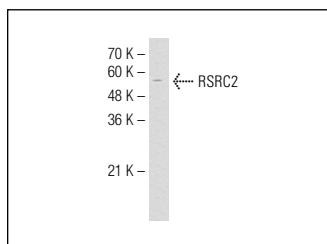
Molecular Weight of RSRC2 isoform 2: 45 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



RSRC2 (F-16): sc-102100. Western blot analysis of RSRC2 expression in Jurkat whole cell lysate.

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.