

SR- α (E-16): sc-324359

BACKGROUND

SR- α , also known as SRPR (signal recognition particle receptor), is a 638 amino acid endoplasmic reticulum (ER) membrane and peripheral membrane protein that belongs to the GTP-binding SRP family. As a component of the signal recognition particle receptor, SR- α forms a heterodimer with SR- β . In conjunction with SR- β , SR- α ensures that nascent secretory proteins are correctly targeted to the ER membrane system. Flanked by the 11q23 and 11q24.2 breakpoints, which are associated with constitutional and neuroepithelioma translocations, respectively, the SR- α gene contains 6,226 bases and maps to human chromosome 11q24.2. Chromosome 11 houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that map to chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SRPR (human) mapping to 11q24.2; Srpr (mouse) mapping to 9 A4.

SOURCE

SR- α (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SR- α of human origin.

STORAGE

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

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-324359 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SR- α (E-16) is recommended for detection of SR- α 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); non cross-reactive with SR- β .

SR- α (E-16) is also recommended for detection of SR- α in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SR- α siRNA (h): sc-96514, SR- α siRNA (m): sc-155968, SR- α shRNA Plasmid (h): sc-96514-SH, SR- α shRNA Plasmid (m): sc-155968-SH, SR- α shRNA (h) Lentiviral Particles: sc-96514-V and SR- α shRNA (m) Lentiviral Particles: sc-155968-V.

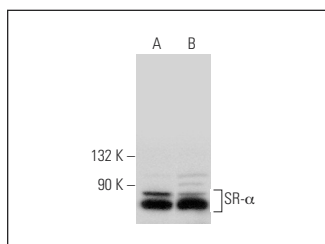
Molecular Weight of SR- α : 70 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or Jurkat whole cell lysate: sc-2204.

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



SR- α (E-16): sc-324359. Western blot analysis of SR- α expression in Jurkat (A) and K-562 (B) whole cell lysates.

RESEARCH USE

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