SLIRP (B-12): sc-514508

**BACKGROUND**

SLIRP (SRA stem-loop-interacting RNA-binding protein), also known as DC50 or C14orf1156, is a 109 amino acid mitochondrial protein that localizes to the nucleus and is ubiquitously expressed, with highest levels in heart, liver, skeletal muscle and testis. Containing a single RRM (RNA recognition motif) domain, SLIRP acts as a nuclear receptor corepressor and binds the STR7 loop of SRA RNA. In addition to repressing the SRA-mediated nuclear receptor coactivation, SLIRP is also able to repress glucocorticoid (GR), androgen (AR), thyroid (TR) and VDR-mediated transactivation. It is suggested that SLIRP may regulate mitochondrial function and augment the effect of Tamoxifen, a drug that acts as an antagonist of the estrogen receptor and inhibits receptor activity. The gene encoding SLIRP is located on human chromosome 14, which houses over 700 genes and comprises nearly 3.5% of the human genome.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Slirp (mouse) mapping to 12 D2.

**SOURCE**

SLIRP (B-12) is a mouse monoclonal antibody raised against amino acids 1-112 representing full length SLIRP of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-514508 X, 200 µg/0.1 ml.

SLIRP (B-12) is available conjugated to agarose (sc-514508 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514508 HRP), 200 µg/ml, for WB, IHCP and ELISA; to either phycoerythin (sc-514508 PE), fluorescein (sc-514508 FITC), Alexa Fluor® 488 (sc-514508 AF488), Alexa Fluor® 546 (sc-514508 AF546), Alexa Fluor® 594 (sc-514508 AF594) or Alexa Fluor® 647 (sc-514508 AF647), 200 µg/ml, for WB (RGB), IF, IHCP and FCM; and to either Alexa Fluor® 680 (sc-514508 AF680) or Alexa Fluor® 790 (sc-514508 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

SLIRP (B-12) is recommended for detection of SLIRP of mouse 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 1:30-1:300).

Suitable for use as control antibody for SLIRP siRNA (m): sc-106554, SLIRP shRNA Plasmid (m): sc-106554-SH and SLIRP shRNA (m) Lentiviral Particles: sc-106554-V.

SLIRP (B-12) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SLIRP: 12 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, Sol8 cell lysate: sc-2249 or c4 whole cell lysate: sc-364186.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

**DATA**

SLIRP (B-12): sc-514508. Western blot analysis of SLIRP expression in NIH/3T3 (A), Sol8 (B) and c4 (C) whole cell lysates.

SLIRP (B-12): sc-514508. Western blot analysis of SLIRP expression in Neuro-2A (A) and BC3H1 (B) whole cell lysates.

**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.