

SSBP4 (O-23): sc-134038

BACKGROUND

The single-stranded-DNA-binding proteins (SSBs) are essential for DNA function in prokaryotic and eukaryotic cells, as well as in mitochondria, bacteria and viruses. SSBP4 (single stranded DNA binding protein 4) is a 385 amino acid nuclear protein that contains one LisH domain and multiple phosphorylated amino acid residues. The gene encoding SSBP4 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (FcRs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SSBP4 (human) mapping to 19p13.11; Ssbp4 (mouse) mapping to 8 B3.3.

SOURCE

SSBP4 (O-23) is an affinity purified rabbit polyclonal antibody raised against synthetic SSBP4 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

SSBP4 (O-23) is recommended for detection of SSBP4 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for SSBP4 siRNA (h): sc-97858, SSBP4 siRNA (m): sc-153841, SSBP4 shRNA Plasmid (h): sc-97858-SH, SSBP4 shRNA Plasmid (m): sc-153841-SH, SSBP4 shRNA (h) Lentiviral Particles: sc-97858-V and SSBP4 shRNA (m) Lentiviral Particles: sc-153841-V.

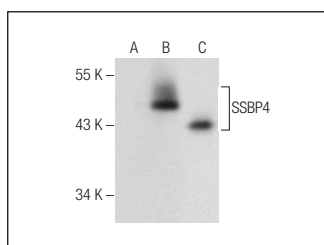
Molecular Weight of SSBP4: 39 kDa.

Positive Controls: SSBP4 (h): 293T Lysate: sc-371401 or Jurkat nuclear extract: sc-2132

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).

DATA



SSBP4 (O-23): sc-134038. Western blot analysis of SSBP4 expression in non-transfected: sc-117752 (A) and human SSBP4 transfected: sc-371401 (B) 293T whole cell lysates and Jurkat nuclear extract (C).

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 or our catalog for detailed protocols and support products.