

# SRE-ZBP (L-25): sc-134035

## BACKGROUND

The best studied of the immediate early genes is the c-Fos proto-oncogene. Many of the signals inducing Fos expression act through a sequence located in the 5' flanking region of c-Fos, designated the serum response element (SRE). The SRE is required for response to activators of protein kinase C and Fos growth-induced signals independent of protein kinase C. Accumulating evidence argues that the SRE is a multifunctional element that may involve the action of multiple SRE-binding proteins. These include the serum response factor (SRF) and the two less well characterized proteins, TCF p62 and BBF p62. An SRE binding nuclear protein, designated SRE-ZBP, is a member of the C<sub>2</sub>H<sub>2</sub> zinc finger family of proteins. Like c-Fos, SRE-ZBP is serum-inducible in HeLa cells, although with slower kinetics.

## REFERENCES

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2. Gilman, M.Z. 1988. The c-Fos serum response element responds to protein kinase C-dependent and -independent signals but not to cyclic AMP. *Genes Dev.* 2: 394-402.
3. Sassone-Corsi, P., et al. 1988. Transcriptional regulation of the c-Fos proto-oncogene. *Nature* 334: 314-319.
4. Norman, C., et al. 1988. Isolation and properties of cDNA clones encoding SRF, a transcription factor that binds to the c-Fos serum response element. *Cell* 55: 989-1003.
5. Shaw, P.E., et al. 1989. Repression of c-Fos transcription is mediated through p67SRF bound to the SRE. *EMBO J.* 8: 2567-2574.
6. Shaw, P.E., et al. 1989. The ability of a ternary complex to form over the serum response element correlates with serum inducibility of the human c-Fos promoter. *Cell* 56: 563-572.
7. Ryan, W.A. Jr., et al. 1989. Two distinct cellular phosphoproteins bind to the c-Fos serum response element. *EMBO J.* 8: 1785-1792.
8. Graham, R. and Gilman, M. 1991. Distinct protein targets for signal acting at the c-Fos serum response element. *Science* 251: 189-192.

## CHROMOSOMAL LOCATION

Genetic locus: ZNF187 (human) mapping to 6p22.1.

## SOURCE

SRE-ZBP (L-25) is a Protein A purified rabbit polyclonal antibody raised against synthetic SRE-ZBP peptide of human origin.

## PRODUCT

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

## STORAGE

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

## APPLICATIONS

SRE-ZBP (L-25) is recommended for detection of SRE-ZBP of 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 SRE-ZBP siRNA (h): sc-38362, SRE-ZBP shRNA Plasmid (h): sc-38362-SH and SRE-ZBP shRNA (h) Lentiviral Particles: sc-38362-V.

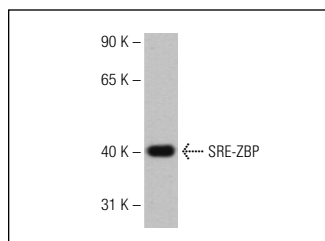
Molecular Weight of SRE-ZBP isoforms: 55/38 kDa.

Positive Controls: Human SRE-ZBP transfected 293T whole cell lysate.

## 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



SRE-ZBP (L-25): sc-134035. Western blot analysis of human SRE-ZBP transfected 293T whole cell lysate.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.