

# SETBP1 (Q-18): sc-85148

## BACKGROUND

SETBP1 (SET binding protein 1), also known as SEB, is a 1,542 amino acid nuclear protein that contains 3 AT hook DNA-binding domains, one SKI homology region and a C-terminal SET-binding domain, which is followed by 3 PPLPPPP repeats. SETBP1 may be involved in SET-related tumorigenesis and leukemogenesis by regulating the transforming activity of SKI in the nucleus or suppressing SET function. As a widely expressed protein, SETBP1 is encoded by a gene that maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

## REFERENCES

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2. Ishikawa, K., Nagase, T., Nakajima, D., Seki, N., Ohira, M., Miyajima, N., Tanaka, A., Kotani, H., Nomura, N. and Ohara, O. 1997. Prediction of the coding sequences of unidentified human genes. VIII. 78 new cDNA clones from brain which code for large proteins *in vitro*. *DNA Res.* 4: 307-313.
3. Minakuchi, M., Kakazu, N., Gorriñ-Rivas, M.J., Abe, T., Copeland, T.D., Ueda, K. and Adachi, Y. 2001. Identification and characterization of SEB, a novel protein that binds to the acute undifferentiated leukemia-associated protein SET. *Eur. J. Biochem.* 268: 1340-1351.
4. Petek, E., Pertl, B., Tschernigg, M., Bauer, M., Mayr, J., Wagner, K. and Kroisel, P.M. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.

## CHROMOSOMAL LOCATION

Genetic locus: SETBP1 (human) mapping to 18q12.3; Setbp1 (mouse) mapping to 18 E3.

## SOURCE

SETBP1 (Q-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of SETBP1 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-85148 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-85148 X, 100 µg/0.1 ml.

## RESEARCH USE

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

## APPLICATIONS

SETBP1 (Q-18) is recommended for detection of SETBP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

SETBP1 (Q-18) is also recommended for detection of SETBP1 in additional species, including equine and canine.

Suitable for use as control antibody for SETBP1 siRNA (h): sc-76486, SETBP1 siRNA (m): sc-153382, SETBP1 shRNA Plasmid (h): sc-76486-SH, SETBP1 shRNA Plasmid (m): sc-153382-SH, SETBP1 shRNA (h) Lentiviral Particles: sc-76486-V and SETBP1 shRNA (m) Lentiviral Particles: sc-153382-V.

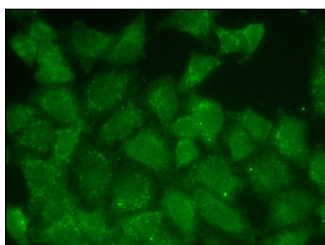
SETBP1 (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of SETBP1: 170 kDa.

## 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) 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.

## DATA



SETBP1 (Q-18): sc-85148. Immunofluorescence staining of formalin-fixed HeLa cells showing nuclear and cytoplasmic localization. Kindly provided by Yang Xiang, Ph.D., Division of Newborn Medicine, Boston Children's Hospital, Cell Biology Department, Harvard Medical School.

## STORAGE

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

## PROTOCOLS

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