

# ZNF143 (C-16): sc-241152

## BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. ZNF143 (zinc finger protein 143), also known as SBF, STAF or pHZ-1, is a 626 amino acid protein that contains 7 C<sub>2</sub>H<sub>2</sub>-type zinc fingers and belongs to the GLI (glioma-associated oncogene) C<sub>2</sub>H<sub>2</sub>-type zinc-finger family. Localized to the nucleus and expressed ubiquitously with highest expression in ovaries, ZNF143 functions as a transcriptional activator that, via its C<sub>2</sub>H<sub>2</sub>-type zinc domains, binds to the SPH motif found in the promoters of small nuclear RNAs (snRNA). Through its ability to bind the promoters of various snRNA genes, ZNF143 controls the subsequent expression of the corresponding protein products. ZNF143 expression is induced upon DNA damage, suggesting an important role for ZNF143 in DNA repair events.

## REFERENCES

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2. Rincon, J.C., et al. 1998. Molecular cloning of a cDNA encoding human SPH-binding factor, a conserved protein that binds to the enhancer-like region of the U6 small nuclear RNA gene promoter. *Nucleic Acids Res.* 26: 4846-4852.
3. Saur, D., et al. 2002. Complex regulation of human neuronal nitric-oxide synthase exon 1c gene transcription. Essential role of Sp and ZNF family members of transcription factors. *J. Biol. Chem.* 277: 25798-25814.
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5. Grossman, C.E., et al. 2004. ZNF143 mediates basal and tissue-specific expression of human transaldolase. *J. Biol. Chem.* 279: 12190-12205.
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## CHROMOSOMAL LOCATION

Genetic locus: ZNF143 (human) mapping to 11p15.4; Zfp143 (mouse) mapping to 7 F1.

## SOURCE

ZNF143 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ZNF143 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-241152 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ZNF143 (C-16) is recommended for detection of ZNF143 of mouse, rat 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)], 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 other ZNF family members.

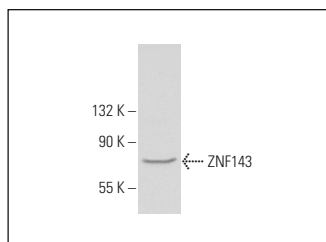
ZNF143 (C-16) is also recommended for detection of ZNF143 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZNF143 siRNA (h): sc-97004, ZNF143 siRNA (m): sc-155641, ZNF143 shRNA Plasmid (h): sc-97004-SH, ZNF143 shRNA Plasmid (m): sc-155641-SH, ZNF143 shRNA (h) Lentiviral Particles: sc-97004-V and ZNF143 shRNA (m) Lentiviral Particles: sc-155641-V.

Molecular Weight of ZNF143: 68 kDa.

Positive Controls: HeLa nuclear extract: sc-2120 or Jurkat whole cell lysate: sc-2204.

## DATA



ZNF143 (C-16): sc-241152. Western blot analysis of ZNF143 expression in Jurkat whole cell lysate.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **ZNF143 (L-26): sc-100983**, our highly recommended monoclonal alternative to ZNF143 (C-16).