



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# ZBP-89 (m): 293T Lysate: sc-124700

## BACKGROUND

ZBP-89, also known as BFCOL1, BERF1 and ZNF 148, is a zinc finger transcription factor that is universally expressed. ZBP-89, a Krüppel-like repressor protein, is the silencer element binding factor for Vimentin. ZBP-89 has been shown to bind to GC-rich DNA elements in promoters for gastrin, ornithine decarboxylase and the cyclin-dependent kinase inhibitor p21 (also designated Cip1 or WAF1). ZBP-89 expression is induced by *trans*-retinoic acid or butyrate, which also induces terminal differentiation of colon cancer cells. ZBP-89 cooperates with histone acetyltransferase coactivator p300 in the regulation of p21, a cyclin-dependent kinase inhibitor whose associated gene is a target gene of p53. ZBP-89 also regulates cell proliferation, in part, through its ability to directly bind the p53 protein and retard its nuclear export. Elevated levels of ZBP-89 induce growth arrest and apoptosis in human gastrointestinal cells.

## REFERENCES

1. Taniuchi, T., Mortensen, E.R., Ferguson, A., Greenson, J. and Merchant, J.L. 1997. Overexpression of ZBP-89, a zinc finger DNA binding protein, in gastric cancer. *Biochem. Biophys. Res. Commun.* 233: 154-160.
2. Wieczorek, E., Lin, Z., Perkins, E.B., Law, D.J., Merchant, J.L. and Zehner, Z.E. 2000. The zinc finger repressor, ZBP-89, binds to the silencer element of the human Vimentin gene and complexes with the transcriptional activator, Sp1. *J. Biol. Chem.* 275: 12879-12888.
3. Bai, L. and Merchant, J. 2001. ZBP-89 promotes growth arrest through stabilization of p53. *Mol. Cell. Biol.* 21: 4670-4683.
4. Yamada, A., Takaki, S., Hayashi, F., Georgopoulos, K., Perlmutter, R.M. and Takatsu, K. 2001. Identification and characterization of a transcriptional regulator for the Lck proximal promoter. *J. Biol. Chem.* 276: 18082-18089.

## CHROMOSOMAL LOCATION

Genetic locus: Zfp148 (mouse) mapping to 16 B3.

## PRODUCT

ZBP-89 (m): 293T Lysate represents a lysate of mouse ZBP-89 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

ZBP-89 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ZBP-89 antibodies. Recommended use: 10-20 µl per lane.

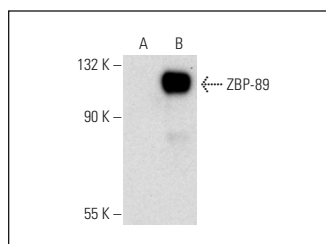
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZBP-89 (E-6): sc-398148 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ZBP-89 expression in ZBP-89 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

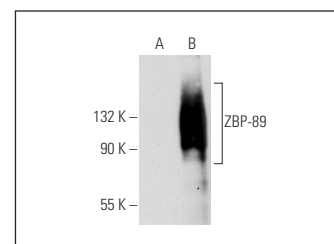
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



ZBP-89 (E-6): sc-398148. Western blot analysis of ZBP-89 expression in non-transfected: sc-117752 (A) and mouse ZBP-89 transfected: sc-124700 (B) 293T whole cell lysates.



ZBP-89 (H-7): sc-137171. Western blot analysis of ZBP-89 expression in non-transfected: sc-117752 (A) and mouse ZBP-89 transfected: sc-124700 (B) 293T whole cell lysates.

## 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) for detailed protocols and support products.