

# ZBP-89 (H-184): sc-48811

## BACKGROUND

ZBP-89, also known as BFCOL1, BERF1 and ZNF 148, is a zinc finger transcription factor that is universally expressed. ZBP-89, a Kruppel-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.

## CHROMOSOMAL LOCATION

Genetic locus: ZNF148 (human) mapping to 3q21.2; Zfp148 (mouse) mapping to 16 B3.

## SOURCE

ZBP-89 (H-184) is a rabbit polyclonal antibody raised against amino acids 611-794 mapping at the C-terminus of ZBP-89 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-48811 X, 200 µg/0.1 ml.

## APPLICATIONS

ZBP-89 (H-184) is recommended for detection of ZBP-89 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ZBP-89 (H-184) is also recommended for detection of ZBP-89 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ZBP-89 siRNA (h): sc-38639, ZBP-89 siRNA (m): sc-38640, ZBP-89 shRNA Plasmid (h): sc-38639-SH, ZBP-89 shRNA Plasmid (m): sc-38640-SH, ZBP-89 shRNA (h) Lentiviral Particles: sc-38639-V and ZBP-89 shRNA (m) Lentiviral Particles: sc-38640-V.

ZBP-89 (H-184) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

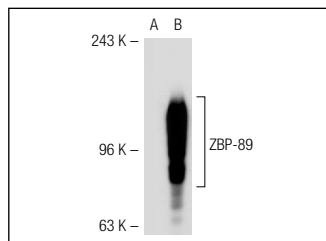
Molecular Weight of ZBP-89: 115 kDa.

Positive Controls: ZBP-89 (m): 293T Lysate: sc-124700, HeLa whole cell lysate: sc-2200 or Jurkat nuclear extract: sc-2132.

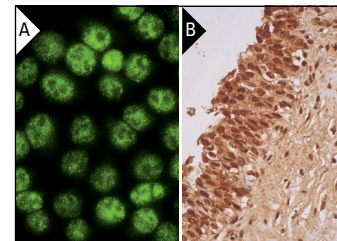
## STORAGE

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

## DATA



ZBP-89 (H-184): sc-48811. 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-184): sc-48811. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing nuclear and cytoplasmic staining of urothelial cells (B).

## SELECT PRODUCT CITATIONS

- Udelhoven, M., et al. 2010. Neuronal Insulin receptor substrate 2 (IRS2) expression is regulated by ZBP89 and SP1 binding to the IRS2 promoter. *J. Endocrinol.* 204: 199-208.
- Phillips, D., et al. 2010. Mice over-expressing the myocardial creatine transporter develop progressive heart failure and show decreased glycolytic capacity. *J. Mol. Cell. Cardiol.* 48: 582-590.
- Buira, S.P., et al. 2010. DNA methylation and Yin Yang-1 repress adenosine A<sub>2A</sub> receptor levels in human brain. *J. Neurochem.* 115: 283-295.
- Zhang, C.Z., et al. 2012. Interaction between ZBP-89 and p53 mutants and its contribution to effects of HDACi on hepatocellular carcinoma. *Cell Cycle* 11: 322-334.

## 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 **ZBP-89 (H-7): sc-137171** or **ZBP-89 (D-10): sc-137170**, our highly recommended monoclonal alternatives to ZBP-89 (H-184).