

## BS69 (F-14): sc-15456

### BACKGROUND

The adenovirus E1A gene products are nuclear phosphoproteins with the ability to transactivate other adenovirus genes. BS69 specifically interacts with adenovirus 5 E1A and inhibits transactivation by the 289R E1A protein. BS69 interacts with the co-repressor N-CoR through an essential MYND domain in the carboxy terminus of N-CoR. BS69 also inhibits the transcriptional activity of c-Myb. During oncogenesis, this BS69/Myb regulatory circuit may be a target for disruption. Another ubiquitously expressed member of the Myb gene family, B-Myb, also interacts with BS69 and N-CoR to function as a transcriptional repressor. BRAM1, a splice variant of BS69, binds specifically to bone morphogenetic protein type IA receptor (BMPRI-A). BRAM1 localizes to the cytoplasm of mammalian cells, while BS69 localizes to the cell nucleus. Unlike BS69, BRAM1 is unable to repress transcription.

### REFERENCES

- Hateboer, G., Gennissen, A., Ramos, Y.F., Kerkhoven, R.M., Sonntag-Buck, V., Stunnenberg, H.G. and Bernards, R. 1995. BS69, a novel adenovirus E1A-associated protein that inhibits E1A transactivation. *EMBO J.* 14: 3159-3169.
- Kurozumi, K., Nishita, M., Yamaguchi, K., Fujita, T., Ueno, N. and Shibuya, H. 1998. BRAM1, a BMP receptor-associated molecule involved in BMP signalling. *Genes Cells* 3: 257-264.
- Masselink, H. and Bernards, R. 2000. The adenovirus E1A binding protein BS69 is a corepressor of transcription through recruitment of N-CoR. *Oncogene* 19: 1538-1546.
- Ladendorff, N.E., Wu, S. and Lipsick, J.S. 2001. BS69, an adenovirus E1A-associated protein, inhibits the transcriptional activity of c-Myb. *Oncogene* 20: 125-132.
- Masselink, H., Vastenhouw, N. and Bernards, R. 2001. B-Myb rescues Ras-induced premature senescence, which requires its transactivation domain. *Cancer Lett.* 171: 87-101.

### CHROMOSOMAL LOCATION

Genetic locus: ZMYND11 (human) mapping to 10p15.3.

### SOURCE

BS69 (F-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BS69 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-15455 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-15455 X, 200 µg/0.1 ml.

### RESEARCH USE

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

### APPLICATIONS

BS69 (F-14) is recommended for detection of BS69 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)], 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).

BS69 (F-14) is also recommended for detection of BS69 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for BS69 siRNA (h): sc-106842, BS69 shRNA Plasmid (h): sc-106842-SH and BS69 shRNA (h) Lentiviral Particles: sc-106842-V.

BS69 (F-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

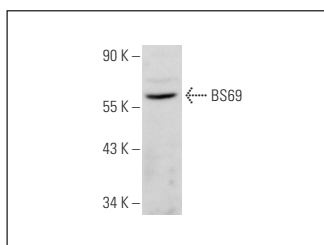
Molecular Weight of BS69: 66 kDa.

Positive Controls: HCT-116 whole cell lysate: sc-364175.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### DATA



BS69 (F-14): sc-15456. Western blot analysis of BS69 expression in mouse liver tissue extract.

### 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.