

# BAG-6 (P-18): sc-82531

## BACKGROUND

BAT3 (HLA-B associated transcript 3), also known as G3, scythe, BAG-6 or D6S52E, is a proline-rich nuclear protein with an important role as an apoptotic regulator. BAT3 contains one ubiquitin-like domain at its N-terminus and two nuclear localization signals at its C-terminus. Specifically, BAT3 interacts with and stabilizes AIF (apoptosis inducing factor), thereby sensitizing the cell to apoptosis mediated by endoplasmic reticulum (ER) stress. Upon Ricin treatment, BAT3 is cleaved by caspase-3 and its C-terminal fragment displays pro-apoptotic activities. The apoptotic activities executed include nuclear condensation, phosphatidylserine externalization, cell rounding and shrinkage. Mice that are deficient in BAT3 exhibit pronounced defects in lung, brain and kidney development and in the regulation of proliferation and apoptosis. These defects ultimately result in perinatal or midgestational lethality.

## CHROMOSOMAL LOCATION

Genetic locus: BAG6 (human) mapping to 6p21.33; Bag6 (mouse) mapping to 17 B1.

## SOURCE

BAG-6 (P-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BAG-6 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82531 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82531 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

BAG-6 (P-18) is recommended for detection of BAG-6 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).

BAG-6 (P-18) is also recommended for detection of BAG-6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for BAG-6 siRNA (h): sc-72614, BAG-6 siRNA (m): sc-72615, BAG-6 shRNA Plasmid (h): sc-72614-SH, BAG-6 shRNA Plasmid (m): sc-72615-SH, BAG-6 shRNA (h) Lentiviral Particles: sc-72614-V and BAG-6 shRNA (m) Lentiviral Particles: sc-72615-V.

BAG-6 (P-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

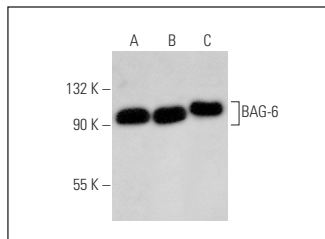
Molecular Weight of BAG-6: 110 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, HEK293 whole cell lysate: sc-45136 or Hep G2 cell lysate: sc-2227

## 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



BAG-6 (P-18): sc-82531. Western blot analysis of BAG-6 expression in MCF7 (A), HEK293 (B) and Hep G2 (C) whole cell lysates.

## 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 **BAG-6 (D-1): sc-365928**, our highly recommended monoclonal alternative to BAG-6 (P-18).