

BAG-6 (H-300): sc-98519

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.

REFERENCES

1. Spies, T., et al. 1989. A new cluster of genes within the human major histocompatibility complex. *Science* 243: 214-217.
2. Ozaki, T., et al. 1999. Cloning and characterization of rat BAT3 cDNA. *DNA Cell Biol.* 18: 503-512.

CHROMOSOMAL LOCATION

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

SOURCE

BAG-6 (H-300) is a rabbit polyclonal antibody raised against amino acids 833-982 mapping at the C-terminus 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.

APPLICATIONS

BAG-6 (H-300) 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), 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).

BAG-6 (H-300) is also recommended for detection of BAG-6 in additional species, including equine, canine, bovine and porcine.

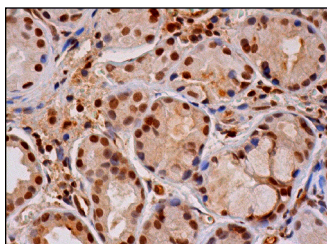
Suitable for use as control antibody for BAG-6 siRNA (h): sc-72614, BAG-6 siRNA (m): sc-72615, BAG-6 shRNA Plasmid (h): sc-72614-SH, BAG-6 shRNA Plasmid (m): sc-72615-SH, BAG-6 shRNA (h) Lentiviral Particles: sc-72614-V and BAG-6 shRNA (m) Lentiviral Particles: sc-72615-V.

Molecular Weight of BAG-6: 119 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



BAG-6 (H-300): sc-98519. Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing nuclear and cytoplasmic staining of glandular cells.

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 for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **BAG-6 (D-1): sc-365928**, our highly recommended monoclonal alternative to BAG-6 (H-300).