**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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

BAG-6 (D-1) is a mouse monoclonal antibody raised against amino acids 833-982 mapping at the C-terminus of BAT3 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

BAG-6 (D-1) is recommended for detection of BAG-6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

Positive Controls: A-431 whole cell lysate: sc-2201, Hep G2 cell lysate: sc-2227 or MCF7 whole cell lysate: sc-2206.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGx BP-HRP: sc-516102 or m-IgGx BP-HRP (Cruz Marker); sc-516102-CM (dilution range: 1:1000-1:10000), 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 m-IgGx BP-FITC: sc-516140 or m-IgGx BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

**DATA**

**SELECT PRODUCT CITATIONS**


**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.