

BAP31 (Q-15): sc-18580

BACKGROUND

BAP31, a human Bcl-2-interacting protein, is an integral membrane protein that is a component of a protein complex in the endoplasmic reticulum. This protein complex mechanically bridges an apoptosis-initiating caspase, like procaspase-8, with the anti-apoptotic regulator Bcl-2 or Bcl-x_L. The cytosolic domain of BAP31 contains two identical caspase recognition sites, which are preferentially cleaved by initiator caspases, including caspase-8. Cleavage of BAP31 during apoptosis generates a p20 fragment, which remains integrated in the membrane and, when expressed ectopically, is a potent inducer of cell death. BAP31 cleavage is important for manifesting cytoplasmic apoptotic events associated with membrane fragmentation and in the cross talk between mitochondria and the endoplasmic reticulum during FAS-mediated apoptosis. The BAP31 gene is ubiquitously expressed in murine tissues and is located on the X chromosome in both mouse and human.

REFERENCES

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- Nguyen, M., Breckenridge, D.G., Ducret, A. and Shore, G.C. 2000. Caspase-resistant BAP31 inhibits FAS-mediated apoptotic membrane fragmentation and release of cytochrome c from mitochondria. *Mol. Cell. Biol.* 20: 6731-6740.

CHROMOSOMAL LOCATION

Genetic locus: BCAP29 (human) mapping to 7q22.3, BCAP31 (human) mapping to Xq28; Bcap31 (mouse) mapping to X A7.3.

SOURCE

BAP31 (Q-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BAP31 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-18580 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BAP31 (Q-15) is recommended for detection of BAP29 of human origin and BAP31 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 BAP31 siRNA (m): sc-37284, BAP31 shRNA Plasmid (m): sc-37284-SH and BAP31 shRNA (m) Lentiviral Particles: sc-37284-V.

Molecular Weight of BAP31: 28 kDa.

Positive Controls: mouse pancreas tissue extract, BJAB whole cell lysate: sc-2207 or HL-60 whole cell lysate: sc-2209.

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) 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.

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 or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **BAP31 (D-6): sc-393810** or **BAP31 (B-10): sc-365347**, our highly recommended monoclonal alternatives to BAP31 (Q-15).