

BAP31 (C-15): sc-18579

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.

CHROMOSOMAL LOCATION

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

SOURCE

BAP31 (C-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-18579 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BAP31 (C-15) is recommended for detection of BAP31 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).

BAP31 (C-15) is also recommended for detection of BAP31 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for BAP31 siRNA (h): sc-37283, BAP31 siRNA (m): sc-37284, BAP31 shRNA Plasmid (h): sc-37283-SH, BAP31 shRNA Plasmid (m): sc-37284-SH, BAP31 shRNA (h) Lentiviral Particles: sc-37283-V and BAP31 shRNA (m) Lentiviral Particles: sc-37284-V.

Molecular Weight of BAP31: 28 kDa.

Positive Controls: mouse pancreas extract: sc-364244, BJAB whole cell lysate: sc-2207 or HL-60 whole cell lysate: sc-2209.

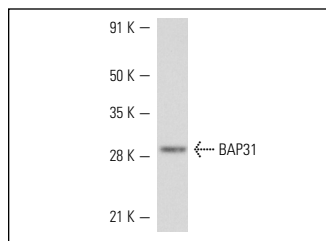
RESEARCH USE

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

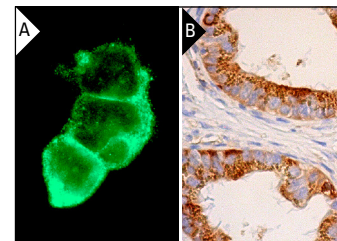
STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



BAP31 (C-15): sc-18579. Western blot analysis of BAP31 expression in mouse pancreas extract.



BAP31 (C-15): sc-18579. Immunofluorescence staining of methanol-fixed MCF7 cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human epididymis tissue showing cytoplasmic staining of glandular cells (B).

SELECT PRODUCT CITATIONS

1. Koga, F., Xu, W., Karpova, T.S., McNally, J.G., Baron, R. and Neckers, L. 2006. HSP 90 inhibition transiently activates Src kinase and promotes Src-dependent Akt and ERK activation. *Proc. Natl. Acad. Sci. USA* 103: 11318-11322.
2. Nieto-Miguel, T., Fonteriz, R.I., Vay, L., Gajate, C., López-Hernández, S. and Mollinedo, F. 2007. Endoplasmic reticulum stress in the pro-apoptotic action of edelfosine in solid tumor cells. *Cancer Res.* 67: 10368-10378.
3. Rosati, E., Sabatini, R., Rampino, G., De Falco, F., Di Ianni, M., Falzetti, F., Fettucciari, K., Bartoli, A., Screpanti, I. and Marconi, P. 2010. Novel targets for endoplasmic reticulum stress-induced apoptosis in B-CLL. *Blood* 116: 2713-2723.

PROTOCOLS

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