BAP31 (CC-4): sc-56008



The Power to Question

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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CHROMOSOMAL LOCATION

Genetic locus: BCAP31 (human) mapping to Xq28.

SOURCE

BAP31 (CC-4) is a rat monoclonal antibody epitope mapping at amino acids 123-229 of BAP31 of human origin.

PRODUCT

Each vial contains 200 μg lgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

BAP31 (CC-4) is recommended for detection of BAP31 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

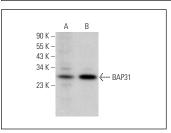
BAP31 (CC-4) is also recommended for detection of BAP31 in additional species, including bovine, hamster and primate.

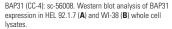
Suitable for use as control antibody for BAP31 siRNA (h): sc-37283, BAP31 shRNA Plasmid (h): sc-37283-SH and BAP31 shRNA (h) Lentiviral Particles: sc-37283-V.

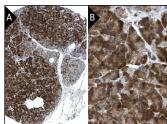
Molecular Weight of BAP31: 28 kDa.

Positive Controls: T84 whole cell lysate: sc-364797, HEL 92.1.7 cell lysate: sc-2270 or WI-38 whole cell lysate: sc-364260.

DATA







BAP31 (CC-4): sc-56008. Immunoperoxidase staining of momain fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of exocrine glandular cells and islet cells at low (A) and high (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

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.

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