

survivin (C-19): sc-8807

BACKGROUND

The baculovirus protein p35 inhibits virally induced apoptosis of invertebrate and mammalian cells and may function to impair the clearing of virally infected cells by the host's immune system. This is accomplished at least in part by its ability to block both TNF- and FAS-mediated apoptosis through the inhibition of the ICE family of serine proteases. Two mammalian homologs of baculovirus p35, referred to as inhibitor of apoptosis protein (IAP) 1 and 2, share an amino-terminal baculovirus IAP repeat (BIR) motif and a carboxy-terminal RING finger. Although the c-IAPs do not directly associate with the TNF receptor (TNF-R), they efficiently block TNF-mediated apoptosis through their interaction with the downstream TNF-R effectors, TRAF1 and TRAF2. Additional IAP family members include ILP (for IAP-like protein) and survivin. ILP inhibits activated caspase-3, leading to the resistance of FAS-mediated apoptosis. Survivin (also designated TIAP) is expressed during the G₂/M phase of the cell cycle and associates with microtubules of the mitotic spindle. Increased caspase-3 activity is detected when a disruption of survivin-microtubule interactions occurs.

CHROMOSOMAL LOCATION

Genetic locus: BIRC5 (human) mapping to 17q25.3.

SOURCE

survivin (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of survivin 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-8807 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

survivin (C-19) is recommended for detection of survivin of 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). survivin (C-19) is also recommended for detection of survivin in additional species, including canine and bovine.

Suitable for use as control antibody for survivin siRNA (h): sc-29499, survivin shRNA Plasmid (h): sc-29499-SH and survivin shRNA (h) Lentiviral Particles: sc-29499-V.

Molecular Weight of survivin: 17 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, COLO 320DM cell lysate: sc-2226 or HL-60 whole cell lysate: sc-2209.

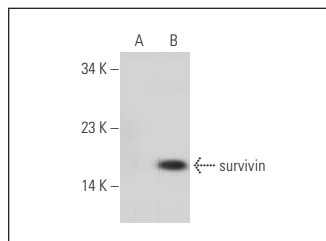
RESEARCH USE

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

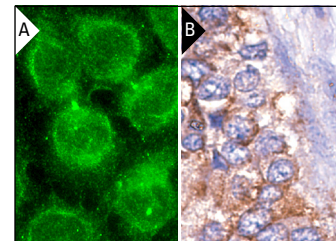
STORAGE

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

DATA



survivin (C-19): sc-8807. Western blot analysis of survivin expression in non-transfected: sc-117752 (A) and mouse survivin transfected: sc-126065 (B) 293T whole cell lysates.



survivin (C-19): sc-8807. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tumor showing cytoplasmic staining (B).

SELECT PRODUCT CITATIONS

- Rowland, N.E., et al. 1994. The process of apoptosis in a holocrine gland as shown by the avian uropygial gland. *Am. J. Physiol.* 267: R792-R798.
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- Cox, A.D., et al. 1994. Tumor priming enhances siRNA delivery and transfection in intraperitoneal tumors. *Oncogene* 9: 3281-3288.
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- Shishido, S.N., et al. 2013. The effect of antineoplastic drugs in a male spontaneous mammary tumor model. *PLoS ONE* 8: e64866.
- Wang, Y., et al. 2015. ROS-mediated activation of JNK/p38 contributes partially to the pro-apoptotic effect of ajoene on cells of lung adenocarcinoma. *Tumour Biol.* E-published.



Try **survivin (D-8): sc-17779** or **survivin (C-6): sc-374616**, our highly recommended monoclonal alternatives to survivin (C-19). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **survivin (D-8): sc-17779**.