Infrared (NIR) W B, IF and FCM.

 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.

**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 carboxyterminal 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 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 carboxyterminal RING finger.

**CHROMOSOMAL LOCATION**

Genetic locus: BIRC5 (human) mapping to 17q25.3; Birc5 (mouse) mapping to 11 E2.

**SOURCE**

survivin (D-8) is a mouse monoclonal antibody raised against amino acids 1-142 of survivin of human origin.

**PRODUCT**

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

survivin (D-8) is available conjugated to agarose (sc-17779 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-17779 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-17779 PE), fluorescein (sc-17779 FITC), Alexa Fluor® 488 (sc-17779 AF488), Alexa Fluor® 546 (sc-17779 AF546), Alexa Fluor® 594 (sc-17779 AF594) or Alexa Fluor® 647 (sc-17779 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-17779 AF680) or Alexa Fluor® 790 (sc-17779 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

survivin (D-8) is recommended for detection of survivin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:5000), 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).


**STORAGE**

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

**DATA**

survivin (D-8): sc-17779. Western blot analysis of survivin expression in HL-60 (A), SJRH30 (B), A53 CA (C), M1 (D), C4 (E) and A-10 (F) whole cell lysates.

survivin (D-8): sc-17779. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tumor showing cytoplasmic staining (A). Immunofluorescence staining of melanoma fixed with 0 (W4B0) cells showing nuclear localization (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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

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