

XIAP (N-18): sc-8789

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 immune system of the host. 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 XIAP and survivin. XIAP 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: XIAP (human) mapping to Xq25; Xiap (mouse) mapping to X A4.

SOURCE

XIAP (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of XIAP 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-8789 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

XIAP (N-18) is recommended for detection of XIAP 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).

XIAP (N-18) is also recommended for detection of XIAP in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for XIAP siRNA (h): sc-37508, XIAP siRNA (m): sc-37509, XIAP shRNA Plasmid (h): sc-37508-SH, XIAP shRNA Plasmid (m): sc-37509-SH, XIAP shRNA (h) Lentiviral Particles: sc-37508-V and XIAP shRNA (m) Lentiviral Particles: sc-37509-V.

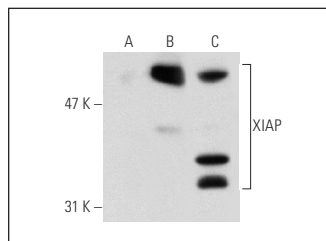
Molecular Weight of XIAP: 55 kDa.

Positive Controls: XIAP (h): 293T Lysate: sc-115280, HeLa whole cell lysate: sc-2200 or A549 cell lysate: sc-2413.

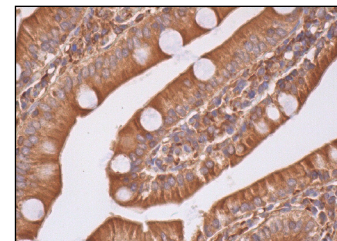
STORAGE

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

DATA



XIAP (N-18): sc-8789. Western blot analysis of XIAP expression in non-transfected 293T: sc-117752 (A), human XIAP transfected 293T: sc-115280 (B) and A549 (C) whole cell lysates.



XIAP (N-18): sc-8789. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Wu, T., et al. 2003. Light-induced photoreceptor degeneration may involve the NFκB/caspase-1 pathway *in vivo*. *Brain Res.* 967: 19-26.
- Pajak, B., et al. 2009. Sodium butyrate sensitizes human colon adenocarcinoma COLO 205 cells to both intrinsic and TNFα-dependent extrinsic apoptosis. *Apoptosis* 14: 203-217.
- Lyu, M.A., et al. 2010. The rGel/BLyS fusion toxin inhibits diffuse large B-cell lymphoma growth *in vitro* and *in vivo*. *Neoplasia* 12: 366-375.
- López-Domínguez, J.A., et al. 2012. Dietary fat modifies mitochondrial and plasma membrane apoptotic signaling in skeletal muscle of calorie-restricted mice. *Age* 35: 2027-2044.
- López-Domínguez, J.A., et al. 2014. Dietary fat and aging modulate apoptotic signaling in liver of calorie-restricted mice. *J. Gerontol. A Biol. Sci. Med. Sci.* E-published.

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.


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Try **XIAP (A-7): sc-55550** or **XIAP (E-2): sc-55551**, our highly recommended monoclonal alternatives to XIAP (N-18). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **XIAP (A-7): sc-55550**.