

XIAP (H-202): sc-11426

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 (H-202) is a rabbit polyclonal antibody raised against amino acids 1-202 mapping at 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.

APPLICATIONS

XIAP (H-202) 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 (H-202) 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: rat kidney extract: sc-2394, HeLa whole cell lysate: sc-2200 or mouse thymus extract: sc-2406.

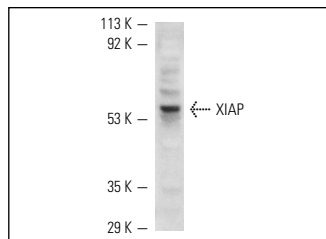
RESEARCH USE

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

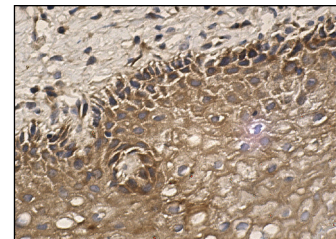
STORAGE

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

DATA



XIAP (H-202) : sc-11426. Western blot analysis of XIAP expression in Daudi cell extract.



XIAP (H-202): sc-11426. Immunoperoxidase staining of formalin fixed, paraffin-embedded human cervix tissue showing cytoplasmic staining of squamous epithelial cells.

SELECT PRODUCT CITATIONS

1. Fulda, S., et al. 2002. Smac agonists sensitize for Apo2L/TRAIL- or anti-cancer drug-induced apoptosis and induce regression of malignant glioma *in vivo*. *Nat. Med.* 8: 808-815.
2. Vasudevan, K.M., et al. 2004. Suppression of PTEN expression by NFκB prevents apoptosis. *Mol. Cell. Biol.* 24: 1007-1021.
3. Han, M.H., et al. 2007. Induction of apoptosis by sanguinarine in C6 rat glioblastoma cells is associated with the modulation of the Bcl-2 family and activation of caspases through downregulation of extracellular signal-regulated kinase and Akt. *Anticancer Drugs* 18: 913-921.
4. Huo, J., et al. 2009. Genetic deletion of FAIM reveals its role in modulating c-FLIP expression during CD95-mediated apoptosis of lymphocytes and hepatocytes. *Cell Death Differ.* 16: 1062-1070.
5. Wang, X., et al. 2010. Changes in the level of apoptosis-related proteins in Jurkat cells infected with HIV-1 versus HIV-2. *Mol. Cell. Biochem.* 337: 175-183.
6. Jeong, J.W., et al. 2011. Induction of apoptosis by cordycepin via reactive oxygen species generation in human leukemia cells. *Toxicol. In Vitro* 25: 817-824.
7. Huang, X., et al. 2013. XIAP inhibits autophagy via XIAP-Mdm2-p53 signalling. *EMBO J.* 32: 2204-2216.



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Try **XIAP (A-7): sc-55550** or **XIAP (E-2): sc-55551**, our highly recommended monoclonal alternatives to XIAP (H-202). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **XIAP (A-7): sc-55550**.