

c-IAP2 (H-85): sc-7944



The Power to Question

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, respectively, have been described. The two proteins 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. The interaction between the TRAF1/TRAF2 heterocomplexes and c-IAPs is dependent on a functional BIR motif.

CHROMOSOMAL LOCATION

Genetic locus: BIRC3 (human) mapping to 11q22.2; Birc3 (mouse) mapping to 9 A1.

SOURCE

c-IAP2 (H-85) is a rabbit polyclonal antibody raised against amino acids 94-178 of c-IAP2 (inhibitor of apoptosis protein 2) 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

c-IAP2 (H-85) is recommended for detection of c-IAP2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for c-IAP2 siRNA (h): sc-29850, c-IAP2 siRNA (m): sc-29851, c-IAP2 shRNA Plasmid (h): sc-29850-SH, c-IAP2 shRNA Plasmid (m): sc-29851-SH, c-IAP2 shRNA (h) Lentiviral Particles: sc-29850-V and c-IAP2 shRNA (m) Lentiviral Particles: sc-29851-V.

Molecular Weight of c-IAP2: 68 kDa.

Positive Controls: U-937 cell lysate: sc-2239, HeLa whole cell lysate: sc-2200 or A-431 whole cell lysate: sc-2201.

STORAGE

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

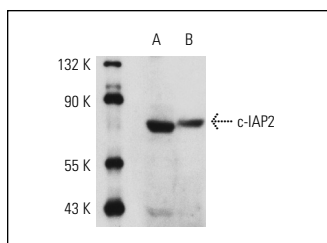
PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

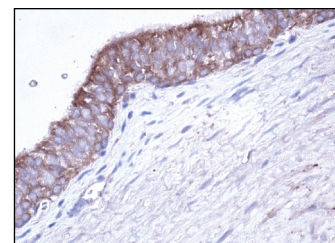
RESEARCH USE

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

DATA



c-IAP2 (H-85): sc-7944. Western blot analysis of c-IAP2 expression in HeLa (A) and A-431 (B) whole cell lysates.



c-IAP2 (H-85): sc-7944. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic staining of cells in seminiferous ducts.

SELECT PRODUCT CITATIONS

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4. Hammami, I., et al. 2009. Chronic crude garlic-feeding modified adult male rat testicular markers: mechanisms of action. *Reprod. Biol. Endocrinol.* 7: 65.
5. Harikumar, K.B., et al. 2010. Escin, a pentacyclic triterpene, chemosensitizes human tumor cells through inhibition of nuclear factor-κB signaling pathway. *Mol. Pharmacol.* 77: 818-827.
6. Prasad, S., et al. 2010. Crotepoxide chemosensitizes tumor cells through inhibition of expression of proliferation, invasion, and angiogenic proteins linked to proinflammatory pathway. *J. Biol. Chem.* 285: 26987-26997.
7. Wu, H.H., et al. 2010. cIAP2 upregulated by E6 oncoprotein via epidermal growth factor receptor/phosphatidylinositol 3-kinase/AKT pathway confers resistance to cisplatin in human papillomavirus 16/18-infected lung cancer. *Clin. Cancer Res.* 16: 5200-5210.
8. Braun, F.K., et al. 2010. Resistance of cutaneous anaplastic large-cell lymphoma cells to apoptosis by death ligands is enhanced by CD30-mediated overexpression of c-FLIP. *J. Invest. Dermatol.* 130: 826-840.
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10. Rödel, J., et al. 2012. Persistent *Chlamydia trachomatis* infection of HeLa cells mediates apoptosis resistance through a *Chlamydia* protease-like activity factor-independent mechanism and induces high mobility group box 1 release. *Infect. Immun.* 80: 195-205.