SANTA CRUZ BIOTECHNOLOGY, INC.

RIP (465-671): sc-4407 WB

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

In contrast to growth factors which promote cell proliferation, FAS ligand (FAS-L) and the tumor necrosis factors (TNFs) rapidly induce apoptosis. Cellular response to FAS-L and TNF is mediated by structurally related receptors containing a conserved "death domain" and belonging to the TNF receptor superfamily. TRADD, FADD and RIP are FAS/TNF-R1-interacting proteins that contain a death domain homologous region (DDH). TRADD (TNF-R1-associated death domain) and FADD (FAS-associated death domain) are 34 kDa and 23 kDa proteins, respectively, that associate with the death domains of both FAS and TNF-R1 via their DDH regions. Overexpression of TRADD leads to NFκB activation and apoptosis in the absence of TNF. Overexpression of FADD causes apoptosis, which can be blocked by the cow pox protein CrmA, suggesting that FADD lies upstream of ICE and possibly other serine proteases. The 74 kDa receptor interacting protein, RIP, associates with FAS exclusively via its DDH, and this association is abrogated in lpr mutants. Unlike TRADD and FADD, RIP contains a putative amino terminal kinase domain .

REFERENCES

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STORAGE

Store at -20° C; stable for one year from the date of shipment.

SOURCE

RIP (465-671) is expressed in *E. coli* as a 50 kDa tagged fusion protein corresponding to amino acids 465-671 of RIP of human origin.

PRODUCT

RIP (465-671) is purified from bacterial lysates (>98%) by column chromatography; supplied as 10 µg protein in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

RIP (465-671) is suitable as a Western blotting control for sc-1169 and sc-7881.

RESEARCH USE

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