RIP (C-12): sc-133102

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) associate with the death domains of both FAS and TNF-R1 via their DDH regions. Overexpression of TRADD leads to NFkB 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 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.

CHROMOSOMAL LOCATION
Genetic locus: RIPK1 (human) mapping to 6p25.2; Ripk1 [mouse] mapping to 13 A3.3.

SOURCE
RIP (C-12) is a mouse monoclonal antibody raised against amino acids 465-671 mapping at the C-terminus of RIP (receptor interacting protein) 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.

RIP (C-12) is available conjugated to agarose (sc-133102 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-133102 HRP), 200 µg/ml, for WB, IHC (P) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000) and to either Alexa Fluor 488 (sc-133102 AF488), Alexa Fluor® 546 (sc-133102 AF546), Alexa Fluor® 594 (sc-133102 AF594) or Alexa Fluor® 647 (sc-133102 AF647), 200 µg/ml, for WB (RGB), IF, IHC (P) and FCM; and to either Alexa Fluor® 680 (sc-133102 AF680) or Alexa Fluor® 790 (sc-133102 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS
RIP (C-12) is recommended for detection of RIP of mouse and human origin by Western Blotting (starting dilution 1:100, 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 RIP siRNA (h): sc-36426, RIP siRNA (m): sc-36427, RIP shRNA Plasmid (h): sc-36426-SH, RIP shRNA Plasmid (m): sc-36427-SH, RIP shRNA (h) Lentiviral Particles: sc-36426-V and RIP shRNA (m) Lentiviral Particles: sc-36427-V.

Molecular Weight of RIP: 74 kDa.

Positive Controls: T24 cell lysate: sc-2292 or 3T3-L1 cell lysate: sc-2243.

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

DATA

SELECT PRODUCT CITATIONS

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

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