SANTA CRUZ BIOTECHNOLOGY, INC.

FADD (G-4): sc-271748

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 NFκB activation and apoptosis in the absence of TNF. Over-expression of FADD causes apoptosis, which can be blocked by the bovine pax 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: FADD (human) mapping to 11q13.3; Fadd (mouse) mapping to 7 F5.

SOURCE
FADD (G-4) is a mouse monoclonal antibody raised against amino acids 28-209 mapping at the C-terminus of FADD of human origin.

PRODUCT
Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FADD (G-4) is available conjugated to agarose (sc-271748 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271748 HRP), 200 µg/ml, for WB, IHC(P) and FCM; to either phycoerythrin (sc-271748 PE), fluorescein (sc-271748 FITC), Alexa Fluor® 488 (sc-271748 AF488), Alexa Fluor® 546 (sc-271748 AF546), Alexa Fluor® 594 (sc-271748 AF594) or Alexa Fluor® 647 (sc-271748 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271748 AF680) or Alexa Fluor® 790 (sc-271748 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS
FADD (G-4) is recommended for detection of FADD of mouse, rat 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), 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).

Suitable for use as control antibody for FADD siRNA (h): sc-35352, FADD siRNA (m): sc-35351, FADD shRNA Plasmid (h): sc-35352-SH, FADD shRNA Plasmid (m): sc-35351-SH, FADD shRNA (h) Lentiviral Particles: sc-35352-V and FADD shRNA (m) Lentiviral Particles: sc-35351-V.

Molecular Weight of FADD: 27 kDa.

Positive Controls: FADD (m2): 293T Lysate: sc-126822.

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

DATA
FADD (G-4) sc-271748, Western blot analysis of FADD expression in non-transfected 293T; sc-117752 (A), mouse FADD transfected 293T: sc-126822 (B) and A-431 (C) whole cell lysates.

SELECT PRODUCT CITATIONS

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

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

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