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 TNFs 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-RI interacting proteins that contain a death domain homologous region (DDH). TRADD (TNF-RI-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-RI via their DDH regions, while the 74 kDa RIP associates exclusively with FAS. An additional FAS interacting protein designated FAF1, for FAS-associated factor-1, binds with the cytoplasmic tail of wild type but not lpr mutant FAS. When overexpressed in cells, FAF1 enhances the efficiency of FAS-mediated apoptosis. In contrast to TRADD, FADD and RIP, FAF1 lacks a DDH and cannot induce apoptosis independently of FAS activation.

REFERENCES


CHROMOSOMAL LOCATION

Genetic locus: FAF1 (human) mapping to 1p33; Faf1 (mouse) mapping to 4 C7.

SOURCE

FAF1 (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of FAF1 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-1885 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FAF1 (M-20) is recommended for detection of FAF1 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).

FAF1 (M-20) is also recommended for detection of FAF1 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for FAF1 siRNA (h): sc-37520, FAF1 siRNA (m): sc-37521, FAF1 shRNA Plasmid (h): sc-37520-SH, FAF1 shRNA Plasmid (m): sc-37521-SH, FAF1 shRNA (h) Lentiviral Particles: sc-37520-V and FAF1 shRNA (m) Lentiviral Particles: sc-37521-V.

Molecular Weight of FAF1: 75-80 kDa.

Positive Controls: Mouse kidney extract: sc-2255, HeLa whole cell lysate: sc-2200 or mouse thymus extract: sc-2406.

DATA

FAF1 (M-20) sc-1885. Western blot analysis of FAF1 expression in mouse kidney (A) and thymus (B) extracts.

SELECT PRODUCT CITATIONS


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.