

FADD (S-18): sc-6035

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 NF κ B 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: FADD (human) mapping to 11q13.3; Fadd (mouse) mapping to 7 F5.

SOURCE

FADD (S-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of FADD of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6035 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FADD (S-18) is recommended for detection of FADD of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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: THP-1 cell lysate: sc-2238, SW480 cell lysate: sc-2219 or 3611-RF whole cell lysate: sc-2215.

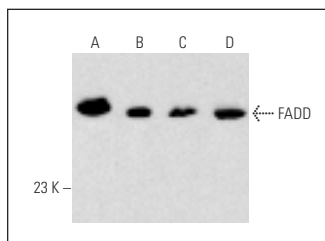
STORAGE

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

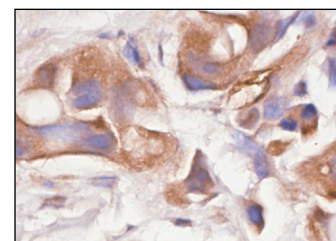
RESEARCH USE

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

DATA



FADD (S-18): sc-6035. Western blot analysis of FADD expression in THP-1 (A), SW480 (B), NIH/3T3 (C) and 3611-RF (D) whole cell lysates.



FADD (S-18): sc-6035. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tumor showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

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- Foley, C.J., et al. 2008. Dynamics of RASSF1A/MOAP-1 association with death receptors. *Mol. Cell. Biol.* 28: 4520-4535.
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