

FAS-L (4H9): sc-18897

BACKGROUND

Cytotoxic T lymphocyte (CTL)-mediated cytotoxicity constitutes an important component of specific effector mechanisms in immuno-surveillance against virus-infected or transformed cells. Two mechanisms appear to account for this activity, one of which is the perforin-based process. Independently, a FAS-based mechanism involves the transducing molecule FAS (also designated Apo-1) and its ligand (FAS-L). The human FAS protein is a cell surface glycoprotein that belongs to a family of receptors that includes CD40, nerve growth factor receptors and tumor necrosis factor receptors. The FAS antigen is expressed on a broad range of lymphoid cell lines, certain of which undergo apoptosis in response to treatment with antibody to FAS. These findings strongly imply that targeted cell death is potentially mediated by the inter-cellular interactions of FAS with its ligand or effectors, and that FAS may be critically involved in CTL-mediated cytotoxicity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FASLG (human) mapping to 1q24.3; FasI (mouse) mapping to 1 H2.1.

RESEARCH USE

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

SOURCE

FAS-L (4H9) is an Armenian hamster monoclonal antibody raised against recombinant human FAS ligand.

PRODUCT

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

FAS-L (4H9) is available conjugated to either phycoerythrin (sc-18897 PE) or fluorescein (sc-18897 FITC), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM.

APPLICATIONS

FAS-L (4H9) is recommended for detection of FAS-L of 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) and flow cytometry (1 μ g per 1×10^6 cells).

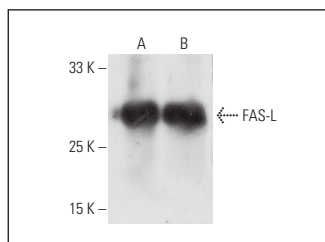
Suitable for use as control antibody for FAS-L siRNA (h): sc-29313, FAS-L siRNA (h2): sc-270139, FAS-L shRNA Plasmid (h): sc-29313-SH, FAS-L shRNA Plasmid (h2): sc-270139-SH, FAS-L shRNA (h) Lentiviral Particles: sc-29313-V and FAS-L shRNA (h2) Lentiviral Particles: sc-270139-V.

Molecular Weight of soluble FAS-L: 26 kDa.

Molecular Weight of FAS-L membrane: 40 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, HL-60 whole cell lysate: sc-2209 or Jurkat whole cell lysate: sc-2204.

DATA



FAS-L (4H9): sc-18897. Western blot analysis of FAS-L expression in K-562 (A) and HL-60 (B) whole cell lysates immunoprecipitated with FAS-L (4H9): sc-18897 and detected with FAS-L (C-178): sc-6237.

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 for detailed protocols and support products.