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FLIP_{S/L} (h2): 293T Lysate: sc-170479

BACKGROUND

FLIP (FLICE inhibitory protein) is expressed as both long and short forms and is involved in the regulation of apoptosis. The short form of FLIP contains two death effector domains homologous to the death effector domain of the FAS-associated protein FADD. The long form of FLIP, which shares significant homology with the cysteine protease FLICE, contains an additional caspase-like domain, but lacks a catalytic active site and lacks the residues that form the substrate binding pocket in most caspases. FLIP has been designated by independent groups as Casper, I-FLICE, CLARP, FLAME-1 and MRIT. Although its exact role is still being elucidated, FLIP appears to be an important factor in the regulation of apoptosis downstream of all known death receptors.

REFERENCES

1. Irmeler, M., et al. 1997. Inhibition of death receptor signals by cellular FLIP. *Nature* 388: 190-195.
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3. Hu, S., et al. 1997. I-FLICE, a novel inhibitor of tumor necrosis factor receptor-1 and CD95-induced apoptosis. *J. Biol. Chem.* 272: 17255-17257.
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5. Inohara, N., et al. 1997. CLARP, a death effector domain-containing protein interacts with caspase-8 and regulates apoptosis. *Proc. Natl. Acad. Sci. USA* 94: 10717-10722.
6. Han, D.K., et al. 1997. MRIT, a novel death-effector domain-containing protein, interacts with caspases and Bcl-x_L and initiates cell death. *Proc. Natl. Acad. Sci. USA* 94: 11333-11338.
7. Thome, M., et al. 1997. Viral FLICE-inhibitory proteins (FLIPs) prevent apoptosis induced by death receptors. *Nature* 386: 517-521.
8. Bannerman, D.D., et al. 2004. FLICE-like inhibitory protein (FLIP) protects against apoptosis and suppresses NFκB activation induced by bacterial lipopolysaccharide. *Am. J. Pathol.* 165: 1423-1431.
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CHROMOSOMAL LOCATION

Genetic locus: CFLAR (human) mapping to 2q33.1.

PRODUCT

FLIP_{S/L} (h2): 293T Lysate represents a lysate of human FLIP_{S/L} transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

FLIP_{S/L} (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive FLIP_{S/L} antibodies. Recommended use: 10-20 µl per lane.

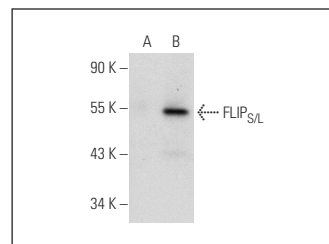
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FLIP_{S/L} (G-11): sc-5276 is recommended as a positive control antibody for Western Blot analysis of enhanced human FLIP_{S/L} expression in FLIP_{S/L} transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



FLIP_{S/L} (G-11): sc-5276. Western blot analysis of FLIP_{S/L} expression in non-transfected: sc-117752 (A) and human FLIP_{S/L} transfected: sc-170479 (B) 293T whole cell lysates.

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.