

FLIP_L (5D8): sc-136160

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

- Shu, H.B., et al. 1997. Casper is a FADD- and caspase-related inducer of apoptosis. *Immunity* 6: 751-763.
- Hu, S., et al. 1997. I-FLICE, a novel inhibitor of tumor necrosis factor receptor-1 and CD-95-induced apoptosis. *J. Biol. Chem.* 272: 17255-17257.
- Srinivasula, S.M., et al. 1997. FLAME-1, a novel FADD-like anti-apoptotic molecule that regulates FAS/TNFR1-induced apoptosis. *J. Biol. Chem.* 272: 18542-18545.
- 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.
- Han, D.K.M., 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.
- Thome, M., et al. 1997. Viral FLICE-inhibitory proteins (FLIPs) prevent apoptosis induced by death receptors. *Nature* 386: 517-521.
- Irmeler, M., et al. 1997. Inhibition of death receptor signals by cellular FLIP. *Nature* 388: 190-195.

CHROMOSOMAL LOCATION

Genetic locus: CFLAR (human) mapping to 2q33.1; Cflar (mouse) mapping to 1 C1.3.

SOURCE

FLIP_L (5D8) is a mouse monoclonal antibody raised against a recombinant protein corresponding to amino acids 1-376 of FLIP_L of human origin.

PRODUCT

Each vial contains 50 µg IgG₃ in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

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.

APPLICATIONS

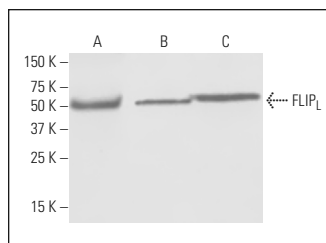
FLIP_L (5D8) is recommended for detection of FLIP long isoform of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for FLIP_{S/L} siRNA (h): sc-35388, FLIP_{S/L} siRNA (m): sc-35389, FLIP_{S/L} shRNA Plasmid (h): sc-35388-SH, FLIP_{S/L} shRNA Plasmid (m): sc-35389-SH, FLIP_{S/L} shRNA (h) Lentiviral Particles: sc-35388-V and FLIP_{S/L} shRNA (m) Lentiviral Particles: sc-35389-V.

Molecular Weight of FLIP_L: 55 kDa.

Positive Controls: mouse kidney extract: sc-2255, rat spleen extract: sc-2397 or MCF7 whole cell lysate: sc-2206.

DATA



FLIP_L (5D8): sc-136160. Western blot analysis of FLIP_L expression in mouse kidney tissue extract (A), MCF7 whole cell lysate (B), and rat spleen tissue extract (C).

SELECT PRODUCT CITATIONS

- Stutz, N., et al. 2012. The Fas apoptotic pathway in cutaneous T-cell lymphomas: frequent expression of phenotypes associated with resistance to apoptosis. *J. Am. Acad. Dermatol.* 67: 1327.
- Piggott, L., et al. 2018. Acquired resistance of ER-positive breast cancer to endocrine treatment confers an adaptive sensitivity to TRAIL through post-translational downregulation of c-FLIP. *Clin. Cancer Res.* 24: 2452-2463.
- Masuda, A., et al. 2020. Efficient recruitment of c-FLIP_L to the death-inducing signaling complex leads to Fas resistance in natural killer-cell lymphoma. *Cancer Sci.* 111: 807-816.

PROTOCOLS

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

CONJUGATES

See **FLIP_{S/L} (G-11): sc-5276** for FLIP_{S/L} antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.