
anti-FAS

Cat #: HM1143
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

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BACKGROUND

Fas (CD95) is a type I membrane receptor, a member of the tumor necrosis factor family of cell surface receptors. It contains a death domain and has been shown to play a central role in the physiological regulation of programmed cell death, and has been implicated in the pathogenesis of various malignancies and diseases of the immune system. The interaction of this receptor with its ligand allows the formation of a death-inducing signaling complex that includes Fas-associated death domain protein (FADD), caspase 8, and caspase10. The autoproteolytic processing of the caspases in the complex triggers a downstream caspase cascade, and leads to apoptosis. Fas also activates NF-kappaB, MAPK3/ERK1, and MAPK8/JNK, and is found to be involved in transducing the proliferating signals in normal diploid fibroblast and T cells.

SPECIFICITY

This antibody reacts with FAS of mouse, rat and human origin by Western blotting and immunohistochemistry.

IMMUNOGEN

Full-length recombinant human FAS protein.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

1. Drappa, J., Brot, N., and Elkon, K. 1993. The Fas protein is expressed at high levels on CD4+CD8+ thymocytes and activated mature lymphocytes in normal mice but not in the lupus-prone strain, MRL lpr/lpr. Proc. Natl. Acad. Sci. USA 90: 10340-10344.
2. Suda, T., Takahashi, T., Golstein, P., and Nagata, S. 1993. Molecular cloning and expression of the Fas ligand, a novel member of the tumor necrosis factor family. Cell 75: 1169-1178.
3. Kägi, D., Vignaux, F., Ledermann, B., Bürki, K., Depraetere, V., Nagata, S., Hengartner, H., and Golstein, P. 1994. Fas and perforin pathways as major mechanisms of T cell-mediated cytotoxicity. Science 265: 528-530.
4. Hanabuchi, S., Koyanagi, M., Kawasaki, A., Shinohara, N., Matsuzawa, A., Nishimura, Y., Kobayashi, Y., Yonehara, S., Yagita, H., and Okumura, K. 1994. Fas and its ligand in a general mechanism of T-cell-mediated cytotoxicity. Proc. Natl. Acad. Sci. USA 91: 4930-4934.
5. Hueber, A.O., Zornig, M., Lyon, D., Suda, T., Nagata, S. and Evan, G.I. (1997) Requirement for the CD95 receptor-ligand pathway in c-Myc-induced apoptosis. Science 278, 1305-1309.
6. Krammer, P.H. (2000) CD95's deadly mission in the immune system. Nature 407, 789-795.

7. Wajant, H. (2002) The Fas signaling pathway: more than a paradigm. Science 296 (5573), 1635-1636.
8. Ivanov, V.N., Lopez Bergami, P., Maulit, G., Sato, T.A., Sasso, D. and Ronai, Z. (2003) FAP-1 association with Fas (Apo-1) inhibits Fas expression on the cell surface. Mol. Cell. Biol. 23, 3623-3635.
9. Hill, J.M., Morisawa, G., Kim, T., Huang, T., Wei, Y., Wei, Y. and Werner, M.H. (2004) Identification of an expanded binding surface on the FADD death domain responsible for interaction with CD95/Fas. J. Biol. Chem. 279, 1474-1481.
10. Muppidi, J.R. and Siegel, R.M. (2004) Ligand-independent redistribution of Fas (CD95) into lipid rafts mediates clonotypic T cell death. Nat. Immunol. 5, 182-189

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