
anti-DR4

Cat #: HM1118
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

DR4 is a member of the TNF-receptor superfamily. It is activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL), and thus transduces cell death signal and induces cell apoptosis. DR4 is expressed in most human tissues including spleen, peripheral blood leukocytes, small intestine and thymus. Like TNFR1, Fas and DR3, DR4 mediates apoptosis and NF kB activation in many tissues and cells. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein.

SPECIFICITY

This antibody specifically recognizes DR4 of human origin.

The antibody can be used in Western blotting, immunoprecipitation and immunostaining.

IMMUNOGEN

A synthetic peptide derived from N-terminus of human DR4 protein.

STORAGE

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

REFERENCES

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3. Kuang,A.A., Diehl,G.E., Zhang,J. and Winoto,A. (2000) FADD is required for DR4- and DR5-mediated apoptosis: lack of trail-induced apoptosis in FADD-deficient mouse embryonic fibroblasts. *J. Biol. Chem.* 275, 25065-25068.
4. Guan,B., Yue,P., Lotan,R. and Sun,S.Y. (2002) Evidence that the human death receptor 4 is regulated by activator protein 1. *Oncogene* 21, 3121-3129.
5. Rippo,M.R., Moretti,S., Vescovi,S., Tomasetti,M., Orecchia,S., Amici,G., Catalano,A. and Procopio,A. (2004) FLIP overexpression inhibits death receptor-induced apoptosis in malignant mesothelial cells. *Oncogene* 23, 7753-7760.

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