
Anti-TRAF2

Cat #: HM1378
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Members of the TNF receptor associated factor (TRAF) protein family have been implicated in the signal transduction mechanism of the TNF receptor superfamily. Six members have been described and are designated TRAF1, TRAF2, TRAF3, TRAF4, TRAF5, and TRAF6. TRAF1 and TRAF2 form a heterodimeric complex, which is required for TNF-alpha-mediated activation of MAPK8/JNK and NF-kappaB. The protein complex also interacts with inhibitor-of-apoptosis proteins (IAPs), and thus mediates the anti-apoptotic signals from TNF receptors. TRAF2 also interacts with TRADD, a TNF receptor associated apoptotic signal transducer, ensures the recruitment of IAPs for the direct inhibition of caspase activation. c-IAP1 possesses ubiquitin ligase activity and can ubiquitinate and induce the degradation of TRAF2.

SPECIFICITY

This antibody reacts with TRAF2 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

Recommended dilution for Western blotting: 1:1000. Molecular weight of TRAF2: 52 kDa. Western blotting positive controls: Jurkat cell lysate.

IMMUNOGEN

Full length human TRAF2 recombinant protein.

STORAGE

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

REFERENCES

1. Rothe, M., Wong, S.C., Henzel, W.J., and Goeddel, D.V. 1994. A novel family of putative signal transducers associated with the cytoplasmic domain of the 75 kDa tumor necrosis factor receptor. *Cell* 78: 681-692.
2. Hu, H.M., O'Rourke, K., Boguski, M.S., and Dixit, V.M. 1994. A novel RING finger protein interacts with the cytoplasmic domain of CD40. *J. Biol. Chem.* 269: 30069-30072.
3. Cheng, G., Cleary, A.M., Ye, Z.S., Hong, D.I., Lederman, S., and Baltimore, D. 1995. Involvement of CRAF1, a relative of TRAF, in CD40 signaling. *Science* 267: 1494-1498.
4. Hsu, H., Xiong, J., and Goeddel, D.V. 1995. The TNF receptor 1-associated protein TRADD signals cell death and NF- κ B activation. *Cell* 81: 495-504.
5. Natoli, G., Costanzo, A., Ianni, A., Templeton, D.J., Woodgett, J.R., Balsano, C. and Levrero, M. (1997) Activation of SAPK/JNK by TNF receptor 1 through a noncytotoxic TRAF2-dependent pathway. *Science* 275, 200-203.

6. Li, X., Yang, Y. and Ashwell, J.D. (2002) TNF-RII and c-IAP1 mediate ubiquitination and degradation of TRAF2. *Nature* 416, 345-347.
7. Brown, K.D., Hostager, B.S. and Bishop, G.A. (2002) Regulation of TRAF2 signaling by self-induced degradation. *J. Biol. Chem.* 277, 19433-19438.
8. Kuai, J., Nickbarg, E., Wooters, J., Qiu, Y., Wang, J. and Lin, L.L. (2003) Endogenous association of TRAF2, TRAF3, cIAP1, and Smac with lymphotoxin beta receptor reveals a novel mechanism of apoptosis. *J. Biol. Chem.* 278, 14363-14369.

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