
anti-Survivin

Cat #: HM1361
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

Survivin (also designated TIAP) is a member of IAP protein family whose members also include c-IAP 1, c-IAP 2, and ILP (for IAP-like protein). c-IAP 1 and 2 are mammalian homologs of baculovirus p35 which inhibits virally induced apoptosis of mammalian cells. They share an amino terminal baculovirus IAP repeat (BIR) motif and a carboxy terminal ring finger. c-IAPs efficiently block TNF-mediated apoptosis through their interaction with the downstream TNF-R effectors, TRAF1 and TRAF2. ILP inhibits activated caspase-3, leading to the resistance of FAS-mediated apoptosis. Survivin is expressed during the G2/M phase of the cell cycle and associates with microtubules of the mitotic spindle. Increased caspase-3 activity is detected when a disruption of survivin-microtubule interactions occurs. Over expression of survivin in cancer may overcome this apoptotic checkpoint and favor aberrant progression of transformed cells through mitosis.

SPECIFICITY

This antibody reacts with survivin of mouse, rat and human origin. It can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular weight of survivin: 16 kDa.

IMMUNOGEN

Full-length recombinant human survivin protein.

STORAGE

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

REFERENCES

1. Beidler, D.R., Tewari, M., Friesen, P.D., Poirier, G., and Dixit, V.M. 1995. The baculovirus p35 protein inhibits Fas- and tumor necrosis factor-induced apoptosis. *J. Biol. Chem.* 270: 16526-16528.
2. Hay, B.A., Wolff, T., and Rubin, G.M. 1994. Expression of baculovirus p35 prevents cell death in *Drosophila*. *Develop.* 120: 2121-2129.
3. Bump, N.J., Hackett, M., Hugunin, M., Seshagiri, S., Brady, K., Chen, P., Ferenz, C., Franklin, S., Ghayur, T., and Li, P. 1995. Inhibition of ICE family proteases by baculovirus antiapoptotic protein p35. *Science* 269: 1885-1888.
4. Uren, A.G., Pakusch, M., Hawkins, C.J., Puls, K.L., and Vaux, D.L. 1996. Cloning and expression of apoptosis inhibitory protein homologs that function to inhibit apoptosis and/or bind tumor necrosis factor receptor-associated factors. *Proc. Natl. Acad. Sci. USA* 93: 4974-4978.

5. Rothe, M., Pan, M.G., Henzel, W.J., Ayres, T.M., and Goeddel, D.V. 1995. The TNFR2-TRAF signaling complex contains two novel proteins related to baculoviral inhibitor of apoptosis proteins. *Cell* 83: 1243-1252.
6. Suzuki, A., Tsutomi, Y., Akahane, K., Araki, T., and Miura, M. 1998. Resistance to Fas-mediated apoptosis: activation of caspase 3 is regulated by cell cycle regulator p21WAF1 and IAP gene family ILP. *Oncogene* 17: 931-939.
7. Li, F., Ambrosini, G., Chu, E.Y., Plescia, J., Tognin, S., Marchisio, P.C., and Altieri, D.C. 1998. Control of apoptosis and mitotic spindle checkpoint by survivin. *Nature* 396: 580-584.

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