
Anti-p53

Cat #: HM1268
Mouse monoclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

p53 is a widely studied tumor suppressor gene expressed in a wide variety of tissue types and is involved in regulating cell growth, replication, and apoptosis. Mutation in p53 is found in a wide variety of malignant tumors, including breast, ovarian, bladder, colon, lung, and melanoma. p53 protein expression is low in normal cells, but increases in response to DNA damage and cellular distress signals. Overexpression of the p53 transcription factor can induce either cell cycle arrest or apoptosis through transcriptional regulation of a number of genes. p53 interacts with various cellular and viral proteins, including mdm2, SV40 T antigen and human papilloma virus E6 protein, c-Abl, basal transcription factor TFIIF, and WT1.

SPECIFICITY

This antibody specifically reacts with p53 of mouse, rat and human origin.

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

IMMUNOGEN

Recombinant human wild type p53 protein expressed in E. coli.

STORAGE

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

REFERENCES

1. Levine, A.J. 1997. p53, the cellular gatekeeper for growth and division. *Cell* 88: 323-331.
2. Lill, N.L., *et al.* 1997. Binding and modulation of p53 by p300/CBP coactivators. *Nature* 387: 823-827
3. Chene, P. 2001. The role of tetramerization in p53 function. *Oncogene* 20: 2611-2617.
4. Ashcroft, M. and Vousden, K.H. 1999. Regulation of p53 stability. *Oncogene* 18: 7637-7643.
5. Hupp, T.R., Meek, D.W., Midgley, C.A., and Lane, D.P. 1992. Regulation of the specific DNA binding function of p53. *Cell* 71: 875-886.
6. Minamoto, T., Buschmann, T., Habelhah, H., Matusevich, E., Tahara, H., Boerresen-Dale, A.L., Harris, C., Sidransky, D., and Ronai, Z. 2001. Distinct pattern of p53 phosphorylation in human tumors. *Oncogene* 20: 3341-3347.

7. Zheng, H., *et al.* 2002. The prolyl isomerase Pin1 is a regulator of p53 in genotoxic response *Nature* 419: 849-53.

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