

## Product Information

### Monoclonal Anti-p130, clone KAB40

produced in mouse, purified immunoglobulin

Catalog Number **P4485**

#### Product Description

Monoclonal Anti-p130 (mouse IgG1 isotype) is produced by immunizing mice with a GST fusion protein to the N-terminus of p130.

Monoclonal Anti-p130 recognizes both phosphorylated and non-phosphorylated forms of p130 by immunoblotting. It is reactive in human, mouse, and monkey.

p130 is a cellular protein that is related both in structure and function to the retinoblastoma (Rb) tumor suppressor protein and p107 (collectively known as pocket proteins). These proteins contain a "pocket" domain comprised of two regions, the A and B pockets that functionally interact with the transcription factors E2F and DP-1 among other proteins.<sup>1, 2, 3, 4, 5</sup> p130 regulates the activity of E2F transcription factors. p130 binds and converts E2F transcription factors from transcriptional activators to transcriptional repressors. E2F transcription factors regulate the expression of a number of genes that are important in cell proliferation, particularly those involved in the progression through G1 and into the S-phase of the cell cycle. p130 regulates the cell cycle negatively by down-regulating the growth response depending upon the phosphorylation state of the "pocket". p130 and its related proteins bind and regulate the activity of various proteins encoded by the small DNA tumor viruses such as adenovirus and SV-40.<sup>6, 7</sup>

#### Reagent

Supplied as a solution in 0.01M phosphate buffered saline containing 0.08% sodium azide.

#### Storage/Stability

For continuous use, store at 2 °C to 8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Avoid repeated freezing and thawing. Do not store in a frost-free freezer. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Product Profile

**Immunoblotting:** a working dilution of 1:1,000 is recommended using human C33A cervical carcinoma cells. A band of approximately 130 kDa is detected.

**Note:** In order to obtain best results in different techniques and preparations we recommend determining optimal working concentrations by titration test.

#### References

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3. Dyson, N. J., *Cell Sci. Suppl.*, **18**, 81-87 (1997).
4. Taya, Y., *TIBS*, **22**, 14-17 (1997).
5. Wu, F.L., et al., *Mol. And Cell Biol.*, **15** 2536-2546 (1995).
6. La Thangue, N.B., *Biochem. Soc. Trans.*, **24**, 54-59 (1996).
7. Ludlow, J.W., and Skuse, G.R., *Virus Res.*, **35**, 113-121 (1995).

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