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Product Information

Monoclonal Anti-Myb, clone MB-8
produced in mouse, purified immunoglobulin

Catalog Number **SAB4200617**

Product Description

Monoclonal Anti-Myb (mouse IgG1 isotype) is derived from the hybridoma MB-8 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to a sequence at the N-terminal region of human Myb (GeneID: 4602). The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Myb recognizes human and mouse Myb. The product may be used in several immunochemical techniques including immunoblotting (~ 72 kDa), flow cytometry and immunocytochemistry.

MYB is a transcription factor that plays a key role as a regulator of stem and progenitor cells in the bone marrow, colonic crypts and a neurogenic region of the adult brain. Lack of MYB activity in these compartments leads to severe or lethal phenotypes. *MYB* has now been identified as an oncogene that is involved in some human leukaemias. Moreover, recent evidence has strengthened the case that *MYB* is activated in colon and breast cancer: a block to *MYB* expression is overcome by mutation of the regulatory machinery in the former disease and by oestrogen receptor-α (ERα) in the latter.[1-3]

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody Concentration: ~ 1.0 mg/mL

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.

Storage/Stability

For extended storage, freeze at –20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. 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.

Product Profile

Immunoblotting: a working concentration of 0.5-1 µg/mL is recommended using Jurkat total cell extract.

Immunofluorescence: a working concentration of 2-4 µg/mL is recommended using HeLa cells.

Flow Cytometry: a working dilution of 2.5-5 µg/test is recommended using HL-60 cells.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Ramsay, R.G., and Gonda, T.J., *Nature Rev., Cancer,* **8**, 523-534 (2008).
2. Ernst, M., and Ramsay, R.G., *J. Gastoenterol. Hepatol.,* **27**, 39-50 (2012).
3. Prouse, M.B., and Campbell, M.M., *Biochim. Biophys. Acta.,* **1819**, 67-77 (2012).

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