

Product Information

Monoclonal Anti-MLL2, clone MLL2-A
produced in mouse, purified immunoglobulin

Catalog Number **SAB4200343**

Product Description

Monoclonal Anti-MLL2 (mouse IgG1 isotype) is derived from the hybridoma MLL2-A produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a fusion protein corresponding to the C-terminus of human MLL2 (GeneID: 8085). The corresponding sequence is identical in mouse and rat MLL2 and shares 85% homology with MLL3. 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- MLL2 recognizes human MLL2. The antibody may be used in several immunochemical techniques including immunoblotting (~17 kDa) and immunofluorescence.

Myeloid/lymphoid or mixed-lineage leukemia 2 (MLL2) belongs to the SET family of proteins. The SET domain of MLL2 confers strong histone 3 lysine 4 methyltransferase activity. MLL2 acts as an epigenetic transcriptional activator during growth and development. MLL2 is part of a large protein complex called ASCOM, which has been shown to be a transcriptional regulator of the β -globin and estrogen receptor genes. mutations in the MLL2 gene have been shown to be a cause of Kabuki syndrome.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 continuous use, store at 2-8°C for up to one month. 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 antibody concentration of 0.2-0.5 μ g/mL is recommended using human MLL2 partial fusion protein (immunogen).

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

References

1. Ng, S.B., et al., *Nat. Genet.*, **42**, 790-793 (2010).
2. Paulussen, A.D., et al., *Hum. Mutat.*, **32**, E2018-E2025 (2010).
3. Kim, D.H., et al., *Mol. Endocrinol.*, **23**, 1556-1562 (2009).

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