

Product Information

Monoclonal Anti-LAP2 α , clone 3A3

produced in mouse, purified immunoglobulin

Catalog Number **SAB4200238**

Product Description

Monoclonal Anti-LAP2 α (mouse IgG1 isotype) is derived from the hybridoma 3A3 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a peptide corresponding to the C-terminus of human LAP2 α (GeneID: 7112), conjugated to KLH. 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-LAP2 α recognizes human and bovine LAP2 α . The antibody may be used in several immunochemical techniques including immunoblotting (~80 kDa) and immunoprecipitation.

Lamina-associated polypeptide 2, isoform α (LAP2 α), also named thymopoietin isoform α , resides in the nucleus. It may play a role in the assembly of the nuclear lamina, and thus help maintain the structural organization of the nuclear envelope. It may function as a receptor for the attachment of lamin filaments to the inner nuclear membrane. Mutations in this gene are associated with dilated cardiomyopathy. Alternatively spliced transcript variants encoding different isoforms have been noted for the TMPO (LAP2) gene.¹⁻⁵

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 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 concentration of 1-2 μ g/mL is recommended using whole extracts of human HeLa cells.

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

References

1. Dorner, D., et al., *FEBS J.*, **274**, 1362-1373 (2007).
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3. Vlcek, S., et al., *Cell. Mol. Life Sci.*, **58**, 1758-1765 (2001).
4. Hutchison, C.J., et al., *J. Cell Sci.*, **114**, 9-19 (2001).
5. Taylor, M.R., et al., *Hum. Mutat.*, **26**, 566-574 (2005).

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