

Product Information

Anti-Periostin antibody, Mouse monoclonal clone 47, purified from hybridoma cell culture

Catalog Number **SAB4200197**

Product Description

Monoclonal Anti-periostin (mouse IgG1 isotype) is derived from the hybridoma 47 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a human Periostin (GenID: 10631) recombinant protein. The human protein shares 87% homology with the mouse protein. 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-Periostin recognizes human Periostin. The antibody may be used in various immunochemical techniques including immunoblotting (~88 kDa).

Periostin, also named osteoblast-specific factor 2 (OSF-2), is a secreted highly expressed cell adhesion molecule which acts during bone formation and supports osteoblastic cell line attachment and spreading. Periostin is a member of the fasciclin family involved in cardiac development and tumorigenesis. Periostin is overexpressed in various types of human epithelial tumors including breast, lung, colon and bladder. Correlation was found between high Periostin expression and tumor aggressiveness. Periostin interacts with integrins through its FAS1 domain and activates the Akt/PKB signaling pathway promoting cancer cell survival, epithelial-mesenchymal transition (EMT), invasion and metastasis.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.

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 2-4 µg/mL is recommended using whole extracts of HEK-293T cells over expressing human Periostin.

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

References

1. Puppin, C., et al., *J. Endocrinol.*, **197**, 401-408 (2008).
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3. Kudo, Y., et al., *Histol. Histopathol.*, **22**, 1167-1174 (2007).
4. Ruan, K., et al., *Cell. Mol. Life Sci.*, **66**, 2219-2230 (2009).
5. Michaylira, C.Z., et al., *Cancer Res.*, **70**, 5281-5292 (2010).

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