

Product Information

Anti-Fibroblast Surface Protein antibody

Mouse monoclonal, Clone 1B10

purified from hybridoma cell culture

Product Number **SAB4200821**

Product Description

Monoclonal Anti-Human Fibroblast Surface Protein (mouse IgM isotype) is derived from the 1B10 hybridoma, produced by the fusion of mouse myeloma cells and splenocytes from a BALB/C mouse immunized with cultured human thymic fibroblasts.¹ The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents (Product Number ISO2). The antibody is purified from the culture supernatant of the hybridoma cells.

Monoclonal Anti-Human Fibroblast Surface Protein specifically recognizes human fibroblast cells, tissue macrophages, and peripheral monocytes.¹ The antibody is recommended for use in various immunological techniques including immunofluorescence,² flow cytometry,¹⁻³ immunohistochemistry,¹ and immunoblotting.¹

Monoclonal Anti-Human Fibroblast Surface Protein recognizes a surface protein characterizing human fibroblasts and fibroblast cell lines, as well as tissue macrophages and 95% of the peripheral blood monocytes. This fibroblast protein antigen has also been demonstrated on malignant fibrosarcoma tissue, human synovial, foreskin, and thymic fibroblasts and it is absent from human epithelial cells and lymphocytes.¹ Due to its specific reaction against human fibroblasts, this antibody is useful for removal of fibroblasts from human cultured cells either by inhibition of fibroblasts adherence to the culture vessel or by cytotoxic effect in the presence of rabbit complement.¹ Overgrowth of epithelial cells by fibroblasts has long been an obstacle to cultivation of normal and abnormal epithelial cells.⁴⁻⁶ Characterization and identification of cells is important for studying functional significance, correlation of cultures with tissue origin, identification of the lineage to which the cells belongs, or identifying the precursor status of the cells.¹

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

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 in working aliquots. Repeated freezing and thawing 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

Immunofluorescence: a working concentration of 5-10 µg/mL is recommended using human foreskin fibroblast Hs68 cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration test.

References

1. Singer, K.H. et al., *J. Invest. Dermatol.*, **92**, 166-70 (1989).
2. Shangguan, L. et al., *Stem Cells*, **30**, 2810-9 (2012).
3. Chamberlin, T. et al., *Breast Cancer Res.*, **19**, 128 (2017).
4. SundarRaj, N. et al., *Curr. Eye Res.*, **3**, 637-44 (1984).
5. Singer, K.H. et al., *Human Immunol.*, **13**, 161-76 (1985).
6. Abbond, C.N. et al., *Blood*, **68**, 1196-200 (1986).

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