

Monoclonal Antibody to Fibroblasts / Epithelial Cells - PE

Alternate names:	Fibroblast Marker, Fibroblasten
Catalog No.:	SM1214R
Quantity:	100 Tests
Background:	A fibroblast is a connective-tissue cell of mesenchymal (somewhat undifferentiated) origin that secretes proteins from which the extracellular fibrillar matrix of connective tissue forms. Epithelial cells are cells that cover the surface of the body and line its cavities.
Host / Isotype:	Mouse / IgG2a
Clone:	D7-FIB
Immunogen:	Human foreskin Fibroblasts. Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2 myeloma cell line.
Format:	State: Lyophilized purified IgG fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA and 5% sucrose as stabilizer. Label: PE – R. Phycoerythrin (RPE) Reconstitution: Restore with 0.25 ml (SM1214RT) or 1 ml (SM1214R) distilled water.
Applications:	Flow Cytometry: Use 10 µl of neat-1/10 diluted antibody to label 10e6 cells in 100 µl. This product is routinely tested in Flow Cytometry on the KG1 cell line. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises a 112kD molecule expressed on the cell surface of human fibroblasts and epithelial cells. In peripheral blood the antibody stains myeloid cells and a very small number of lymphocytes. Studies upon the antigen have shown it to be sensitive to SDS, but resistant to trypsin, tunicamycin and collagenase. In immunohistological studies the antibody has also been found to bind to epithelium, myoepithelium, smooth muscle and some leucocytes. D7-FIB has been shown to be useful as a cell membrane marker to characterize chondrocyte differentiation giving a positive reaction with dedifferentiated human chondrocytes, and negative with differentiated chondrocytes. (3)
Species Reactivity:	Tested: Human. Does not react with Mouse and Rat.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

Storage:

Store the antibody undiluted Prior to and After reconstitution at 2-8°C.

DO NOT FREEZE!

This product is photosensitive and should be protected from light.

Shelf life: one year from despatch.

Product Citation:

Unconjugated antibody is cited in:

1. Michael R. Nazareth, Lori Broderick, Michelle R. Simpson-Abelson, Raymond J. Kelleher, Jr., Sandra J. Yokota, and Richard B. Bankert Characterization of Human Lung Tumor-Associated Fibroblasts and Their Ability to Modulate the Activation of Tumor-Associated T Cells J. Immunol., May 2007; 178: 5552-5562.

General References:

1. Fearn, C. and Dowdle, E. B. (1992) The desmoplastic response: induction of collagen synthesis by melanoma cells in vitro. Int. J. Cancer. 50:621-627.
2. Kelynack, K. J. et al. (2000) Human renal fibroblast contraction of collagen I lattices is an integrin-mediated process Nephrol. Dial. Transplant. 15:1766-1772.
3. Van Osch, G.J.V.M. , et al. (2001) Monoclonal antibody 11-Fibrau: A useful marker to characterize chondrocyte differentiation stage. Biochem. Biophys. Res. Commun. 280:806-812.

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