

# OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com OriGene Technologies GmbH

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11

info-de@origene.com

# SM1214RT Monoclonal Antibody to Fibroblasts / Epithelial Cells - PE

Alternate names: Fibroblast Marker, Fibroblasten

Quantity: 25 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 from Tissue Culture Supernatant

Purification: Affinity Chromatography on Protein G

Buffer System: PBS, pH 7.4

Preservatives: 0.09% Sodium Azide Stabilizers: 1% BSA, 5% Sucrose Label: PE – R. Phycoerythrin (RPE)

**Reconstitution:** Restore with 0.25 ml (SM1214RT) or 1 ml (SM1214R) distilled water. **Flow Cytometry:** Use 10  $\mu$ l of neat-1/10 diluted antibody to label 10e6 cells in 100  $\mu$ l.

Applications: Flow Cytometry: Use 10 μl of neat-1/10 diluted antibody to label 10e6 cell 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 recognizes 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, myoepthelium, 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).

Negative Species: Mouse, Rat.

Species Reactivity: Tested: Human.

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 Citations:**

## **Purchased from Acris:**

*Unconjugated antibody is cited in:* 

1. Nazareth MR, Broderick L, Simpson-Abelson MR, Kelleher RJ, Yokota SJ, Bankert RB. Characterization of human lung tumor-associated fibroblasts and their ability to modulate the activation of tumor-associated T cells. J Immunol. 2007 May 1;178(9):5552-62. PubMed PMID: 17442937.

## **General Readings:**

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- 11. Miranda-Carús ME, Balsa A, Benito-Miguel M, De Ayala CP, Martín-Mola E. Rheumatoid arthritis synovial fluid fibroblasts express TRAIL-R2 (DR5) that is functionally active. Arthritis Rheum. 2004 Sep;50(9):2786-93. PubMed PMID:



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