



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Mouse Anti Human Fibroblasts/Epithelial Cells:RPE

Catalog No.
DS-MB-03293

Target Species
Human

Isotype
IgG2a

Preparation

Immunogen: Human foreskin fibroblasts

Preparation: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Specificity

DS-MB-03293 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, myoepithelium, smooth muscle and some leucocytes.

This antibody 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). This product is routinely tested in flow cytometry on the KG1 cell line.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

Preservative Stabilizers: 0.09% Sodium Azide, 1% Bovine Serum Albumin

Buffer Solution: Phosphate buffered saline, pH 7.4

Approx. Protein Concentrations: IgG concentration 0.1mg/ml

Reconstitution: Reconstitute in 0.25 ml distilled water

Fusion Partners: Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2 myeloma cell line

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Storage

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life: 12 months from date of dispatch

Applications

Table Summary of antibody applications and working conditions

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
IHC			•	
Flow Cytometry (1)	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(1) Flow Cytometry: Use 10ul of the suggested working dilution to 1×10^6 cells in 100ul.

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**