



RayBiotech, Inc.

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Certificate of Analysis and Datasheet

Mouse anti Human Fibroblast/Epithelial cells with HRP-conjugated secondary antibody

Catalog No.	Species	Isotype
DS-MB-03292	Human	IgG2a

Preparation

- **Immunogen:** Human foreskin fibroblasts
- **Fusion Partners:** Spleen cells from immunized BALB/c mice were fused with cells of the mouse SP2 myeloma cell line
- **Preparation:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Specificity

- DS-MB-03292 recognizes a 112 kD 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.
- DS-MB-03292 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
- This product is routinely tested in flow cytometry on the KG1 cell line.

Formulation

- **Product Type:** Monoclonal Antibody
- **Product Form:** Purified IgG - liquid
- **Preservative Stabilizers:** 0.09% Sodium Azide
- **Buffer Solution:** Phosphate buffered saline pH 7.4
- **Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

Storage

- Store at +4°C or at -20°C if preferred.
- This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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



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- **Shelf Life:** 18 months from date of shipment.

Reference

- 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.
- 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.
- 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.

Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
Immunohistology Frozen	•		•	1:100
Immunohistology - paraffin		•		
Immunohistology - resin				
Flow Cytometry	•			1:50 – 1:200
Immunoprecipitation	•			
Immunofluorescence			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application. Use 10 ul of the suggested working dilution to label 10^6 cells in 100 ul. Method sheets are available on request.

Secondary Antibody Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blotting)	•			1:5,000 – 1:10,000

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