



## 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](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet Rat Anti-Mouse CD34:FITC

**Catalog No.**  
DS-MB-03816

**Target Species**  
Mouse

**Isotype**  
IgG2a

## Preparation

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

## Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

**Preservatives & Stabilizers:** 0.09% Sodium Azide, 1% Bovine Serum Albumin

**Buffer Solution:** Phosphate buffered saline pH7.4

**Approx. Protein Concentrations:** IgG concentration 0.1 mg/ml

## Specificity

DS-MB-03816 recognizes the murine CD34 cell surface antigen, which is expressed by endothelial cells and by haematopoietic stem cells. This antibody recognizes a neuraminidase sensitive epitope. As in the human system, CD34 antibodies in the mouse demonstrate slightly different staining patterns depending on their fine specificity.

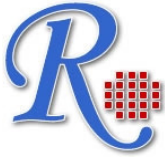
## Applications

Table Summary of antibody applications and working conditions

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

**Note:** Optimal dilutions should be determined by each laboratory for each application.  
(1) Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

**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](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

---

### **Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 18 months from date of dispatch.

### **References**

1. Garlanda, C. et al. (1997) Characterization of MEC14.7, a new monoclonal antibody recognizing mouse CD34: a useful reagent for identifying and characterizing blood vessels and haematopoietic precursors. *Eur. J. Cell Biol.* 73: 368-377.
2. Winding, B. et al. (2002) Synthetic matrix metalloproteinase inhibitors inhibit growth of established breast cancer osteolytic lesions and prolong survival in mice. *Clin. Cancer Res.* 8: 1932-1939.

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