



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Mouse Anti-Human CD49d: FITC

**Catalog No.**  
DS-MB-03117

**Target Species**  
Human

**Isotype**  
IgG1

## Preparation

**Synonyms:** CD49D

**Purification:** Purified IgG prepared by affinity chromatography on Protein G

**Immunogen:** Hyatt myeloma cell line

**Fusion Partners:** Cells from immunised mice were fused with cells of the NSO myeloma cell line.

## Specificity

DS-MB-03117 recognizes human CD49d, also known as integrin alpha 4, a 150kD transmembrane glycoprotein, which may be cleaved to form 70kD and 80kD fragments. CD49d is expressed on a broad range of cells including lymphocytes, monocytes, eosinophils and thymocytes. The CD49d molecule forms heterodimers with either integrin Beta 1 (to form VLA-4) or beta 7 (to form alpha4 beta7), which mediate cell adhesion to VCAM-1 and fibronectin.

## Formulation

**Product Type:** Monoclonal Antibody

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

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

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

**Preservative Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>), 1% Bovine Serum Albumin

## Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry	•			Neat - 1/10
Western Blotting			•	
Elisa			•	

**Note:** Other applications are not tested yet. Optimal dilutions should be determined.  
(1) Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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



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### **Storage**

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

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. 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.

### **Reference**

1. Oxford University Press. (1995) Leucocyte Typing V. White cell differentiation antigens. Volume Two. p 1617 – 1618.

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