



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Rat Anti Dog CD45:FITC

**Catalog No.**  
DS-MB-03614

**Target Species**  
Dog

**Isotype**  
IgG2b

### Preparation

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

**Immunogen:** Canine thymocytes

### Formulation

**Product Type:** Monoclonal Antibody

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

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

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

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

**Fusion Partners:** Spleen cells from immunized DA rat were fused with cells of the Y3/A1.2.3 rat myeloma cell line.

### Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry (1)	.			Neat - 1/5

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.  
(1) Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or cells or 100ul whole blood.

### Specificity

DS-MB-03614 was clustered as canine CD45 in the First Canine Leukocyte Antigen Workshop (CLAW). It immunoprecipitates an antigen of 180/200kD from Con-A blast (1). CD45 is expressed on all leukocytes in canine peripheral blood and may be against the CD45RB isoform. This antibody reacts with CD45 on all outbred mongrels and beagles tested.

**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. 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. Cobbold, S. & Metcalfe, S. (1994) Monoclonal antibodies that define canine homologues of human CD antigens: summary of the First International Canine Leukocyte Antigen Workshop (CLAW). Tissue Antigens 43(3): 137-154.

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