



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## MOUSE ANTI HUMAN CD244

### With HRP-conjugated Secondary Antibody

Catalog No.	Target Species	Isotype
DS-MB-00536	Human	IgG1

### Preparation

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

**Immunogen:** CD244 Fusion protein

**Fusion Partners:** Spleen cells from immunized Balb/c mice were fused with cells of the NS-1 myeloma cell line.

### Specificity

DS-MB-00536 is specific for the CD244 cell surface antigen, also known as natural killer receptor 2B4 (NKG2B4).

The glycoprotein CD244 is a member of the SLAM family of receptors which is expressed on natural killer (NK) cells, gamma delta T cells, CD14+ monocytes, and a subset of CD8+ T cells.

CD244 was originally identified as an activating receptor on NK cells, although recent studies suggest that the receptor may have a wide range of activities including NK cell activation, costimulation, or even inhibition, depending on the cell type and stage of differentiation. The ligand of 2B4 is CD48, a GPI-anchored membrane protein also belonging to the SLAM family.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

**Buffer Solution:** Phosphate buffered saline pH 7.4

**Preservative Stabilizers:** 0.09% Sodium Azide

**Approx. Protein Concentrations:** IgG concentration 1.0 mg/ml

### 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. 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.

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



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### Reference

1. Romero, X. et al. (2005) CD229 (Ly5) lymphocyte cell surface receptor interacts homophilically through its N-terminal domain and relocalizes to the immunological synapse. *J. Immunol.* 174: 7033-7042.

### Applications

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Elisa			•	
Immunohistology - Paraffin			•	
Immunohistology - Frozen			•	
Immunohistology - Resin			•	
Western Blotting			•	
Immunoprecipitation	•			
Flow cytometry (1)	•			1:50 – 1:200

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  $1 \times 10^6$  cells in 100ul. Method sheets are available on request

### Secondary Antibody Applications

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

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