



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## Rat Anti-Mouse Dectin-2:RPE

**Catalog No.**  
DS-MB-03896

**Species**  
Mouse

**Isotype**  
IgG2a

### Preparation

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

**Immunogen:** Dectin-2 (extracellular domain) Fc Fusion protein

### Specificity

DS-MB-03896 recognizes mouse DC-associated C-type lectin-2 (Dectin-2), a type II transmembrane protein that is a member of the C-type lectin superfamily. In mouse, dectin-2 is predominantly expressed on tissue macrophages and some dendritic cells.

Significant expression of Dectin-2 has been reported on macrophages in the red pulp and marginal zones of the spleen, kupffer cells in the liver and alveolar macrophages in the lung. Peripheral blood monocytes express low levels of dectin-2 but transient up-regulation of expression has been demonstrated on monocytes at sites of inflammation.

The function of dectin-2 has not been fully determined but studies suggest a possible role in immune-surveillance.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

**Buffer Solution:** Phosphate buffered saline

**Preservative Stabilizers:** 0.09% Sodium Azide, 1% Bovine Serum Albumin, 5% Sucrose

### Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry	•			Neat – 1:5

Note: Other applications are not tested yet. Optimal dilutions should be determined.

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



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### **Reconstitution:**

Reconstitute in 0.25 ml distilled water

### **Flow Cytometry**

Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

### **Storage**

Store at +4°C. DO NOT FREEZE.

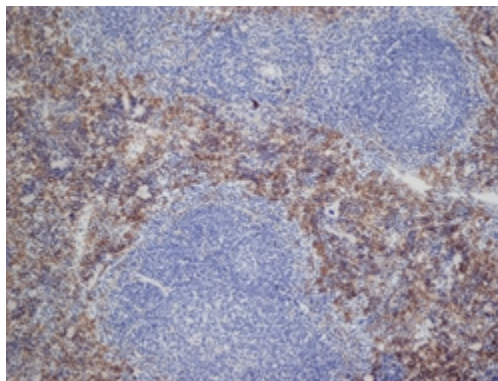
This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

**Shelf Life:** 12 months from date of dispatch.

### **References**

1. Taylor, P.R. et al. (2005) Dectin-2 is predominantly myeloid restricted and exhibits unique activation-dependent expression on maturing inflammatory monocytes elicited in vivo. Eur J Immunol.35:2163 - 2174.
2. Suram, S. et al. (2010) Pathways regulating cytosolic phospholipase A2 activation and eicosanoid production in macrophages by Candida albicans. J Biol Chem. 2010 Jul 18. [Epub ahead of print]
3. Barrett, N.A. et al. (2011) Dectin2 mediates Th2 immunity through the generation of cysteinyl leukotrienes. J Exp Med 28 Feb [epub ahead of print]

### **Image**



Mouse spleen stained with Rat anti Mouse Dectin-2 (cat# DS-MB-01146)

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