



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## RABBIT ANTI HUMAN CD11c

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-PB-00396

**Target Species**  
Human

**Isotype**  
IgG

### **Preparation**

**Purification:** Antisera to CD11c were raised by repeated immunizations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.

**Immunogen:** Synthetic peptide: Internal domain of human CD11c, conjugated to KLH.

### **Specificity**

DS-PB-00396 detects human CD11c, also known as integrin alpha X (ITGAX). Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. CD11c combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). CD11c is 150kD in size, and is expressed predominantly on tissue macrophages and dendritic cells.

CD11c binds a myriad of ligands including cell adhesion molecules (e.g. ICAM-1, ICAM-4), bacterial cell wall components (LPS), complement protein (iC3b), and matrix proteins such as fibronectin and collagen. In light of this, CD11c has a number of functions including phagocytosis, cell migration, and cytokine production by macrophages/monocytes, as well as induction of T cell proliferation by Langerhans cells.

### **Formulation**

**Product Type:** Polyclonal Antibody

**Product Form:** Tissue Culture Supernatant - liquid

**Buffer Solution:** Phosphate buffered saline pH7.7

**Preservative Stabilizers:** 0.09% Sodium Azide (NaN<sub>3</sub>)

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

### **Storage**

Store at +4°C for one month or at -20°C for longer. 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. Cabanas, C. and Sanchez-Madrid, F. (1999) CD11c (leukocyte integrin CR4 alpha subunit). J. Biol. Regul. Homeost. Agents. 13: 134-136.
2. Zang, Q. and Springer, T. A. (2001) Amino acid residues in the PSI domain and cysteine-rich repeats of the integrin beta2 subunit that restrain activation of the integrin alpha(X)beta(2). J. Biol. Chem. 276: 6922-6929.

### Applications

**Table Summary of antibody applications and working conditions**

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology – paraffin(1)	•			5 – 15 µg/ml
Immunohistology - resin			•	
Immunoprecipitation			•	
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.  
 (1) This product requires antigen retrieval using heat treatment for 20 minutes prior to staining of paraffin sections. 0.01 M sodium citrate buffer, pH 6.0 is recommended for this purpose.

### 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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