



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet

## MOUSE ANTI HUMAN CD161

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
DS-MB-00399

**Species**  
Human

**Isotype**  
IgG<sub>2b</sub>

### Preparation

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

**Fusion Partners:** Spleen cells from immunised BALB/c mice were fused with cells of the mouse P2X63.Ag8.653 myeloma cell line.

### Specificity

This antibody recognizes the human CD161 cell surface antigen, expressed by almost all NK cells and with a small subset of CD3+ve T cells.

CD161 is a homodimeric cell surface protein, comprising two chains of 40-44kD.

Clone B199.2 recognises a similar epitope to the DX9 monoclonal antibody.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG - liquid

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

**Preservative & Stabilizers:** 0.09% Sodium Azide

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

### Storage

18 months from date of dispatch.

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

This product should be stored undiluted. Storage in frost free freezers is not recommended.

**Should this product contain a precipitate we recommend microcentrifugation before use.**

**Avoid repeated freezing and thawing.**

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



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### Applications

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

<b>Options Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
ELISA			•	
Western Blotting				
Immunohistology - frozen	•			
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation	•			
Immunofluorescence staining			•	
Flow Cytometry(*)	•			1/50 - 1/100

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

### Secondary Antibody Applications

<b>Options Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### Reference

1. Bennett, I.M. et al. (1996) Definition of natural killer NKR-P1A+/CD56-/CD16- functionally immature human NK cell subset that differentiates in vitro in the presence of interleukin 12. J. Exp. Med. 184: 1845-1856.
2. Azzoni, L. et al. (1998) Differential transcriptional regulation of CD161 and a novel gene, 197/15a, by IL-2, IL-15, and IL-12 in NK and T cells. J. Immunol. 161: 3493-3500.

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