



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## MOUSE ANTI HUMAN PROLACTIN (EPITOPE b)

With HRP-conjugated secondary antibody

**Catalog No.**  
DS-MB-02158

**Species:**  
Human

**Isotype:**  
Mouse IgG1

### **Description**

The anterior pituitary secretes a variety of hormones that are involved in cell growth, differentiation and development. Prolactin, a 226 amino acid protein, plays a role in multiple processes, including cell growth, reproduction and immune function. Full length Prolactin, as well as an alternative splice product lacking the third exon, are secreted by endothelial cells involved in angiogenesis. In addition to its role in mammary development and lactation, Prolactin is known to play a role in the development of mammary cancer, acting as both a mitogen and a differentiating agent. Prolactin has also been shown to enhance the proliferation of B cell hybridomas, leading to an overall increase in antibody production. In addition, Prolactin has been demonstrated to reverse the antiproliferative effects of the immunosuppressive cytokine TGF $\beta$ . Prolactin is also associated with a variety of autoimmune diseases, including arthritis and type 1 diabetes.

### **Preparation**

This product uses human prolactin as the immunogen. Spleen cells from immunised mice were fused with cells of the mouse P3-X63-Ag8.653 myeloma cell line. Purified IgG from supernatant of tissue culture was prepared by ion exchange chromatography.

### **Specificity**

DS-MB-02158 recognizes the b epitope on human prolactin. No cross-reaction was observed in direct binding RIA or ELISA with growth hormone or PL.

### **Reconstitution**

Supplied as 0.5 mg of purified liquid antibody in PBS with pH 7.4, containing 0.09% Sodium Azide. Its final concentration is 1.0 mg/ml. **Please avoid freeze-thaw cycles.**

**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</b> <b>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			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Radioimmunoassay	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

### Secondary Antibody Applications

<b>Options</b> <b>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

### 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. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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