



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI HUMAN PROLACTIN (EPITOPE c)

With HRP-conjugated secondary antibody

Catalog No.
DS-MB-02159

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 β . 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-02159 recognizes human prolactin, binding to epitope 'c'.

Reconstitution

Supplied as 0.5 mg of purified liquid antibody in PBS, 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

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1:20 - 1:200
Western Blotting			•	
Immunohistology - frozen	•			1:500 - 1:1000
Immunohistology – paraffin (1)	•			1:500 - 1:1000
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Neutralization			•	
Radioimmunoassays	•			

(1) Special conditions apply. - This product does require antigen retrieval using heat treatment prior to staining of paraffin sections. 1mM EDTA pH8.0 is recommended for this purpose.

This product uses human pituitary as the Histology Positive Control Tissue.

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

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
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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