



## RayBiotech, Inc.

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# Certificate of Analysis and DataSheet

## Mouse anti Human CD25 IL-2 Receptor

**Catalog No.**  
MD-14-0779

**Species**  
Human

**Isotype:**  
IgG2a

### ***Description:***

Monoclonal Antibody to Human CD25, Interleukin-2 (IL-2) Receptor

### ***Specificity:***

The molecular weight of the recognized antigen is 55kDa. The IL-2 receptor consists of at least three distinct membrane components: the alpha chain (IL-2R alpha, Tac, CD25), the beta chain (IL-2R beta, p75, CD122), and the gamma chain (IL-2R gamma). CD25 is undetectable on resting T cells but is induced upon T-cell activation. MD-14-0779 recognizes activated T and B cells. CD25 is absent on thymocytes, resting T and B cells, and NK cells. MD-14-0779 does not inhibit the in vitro IL2 dependent proliferation (6).

### ***Host Animal:***

Mouse. Hybridization of NS 1/Ag14.1 myeloma cells with spleen cells of Balb/c mice.

### ***Immunogen:***

Human alloactivated T lymphocytes (FC2) kept in conditioned medium

### ***Format:***

Purified, Lyophilized  
Reconstitute with 1ml distilled water.

### ***Purification:***

Ion exchange chromatography

### ***Concentration:***

Not applicable

### ***Affinity Constant:***

Not determined

### ***Buffer:***

PBS containing 1mg/ml BSA

### ***Preservative:***

None

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



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### ***Applications:***

Biological analysis of the IL-2 receptor.

Fluorescence microscopy or flow cytometry: 2 $\mu$ g/5x10<sup>5</sup> cells/test

Immunohistochemistry: Working dilution: 1:25 to 1:50. (Only suitable on frozen sections or cell smears).

Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

### ***Storage:***

Store lyophilized product at 2-8°C. After reconstitution, aliquot and store at -20°C. The addition of 0.1% (w/v) sodium azide is recommended for storage (up to 1 month) at 2-8°C or several months at -20°C.

### ***References:***

- Hemler, M.E., et al., (1983), "A 55,000 Mr surface antigen on activated human T lymphocytes defined by a monoclonal antibody", Human Immunology, 8: 153-165
- Hemler, M.E., et al., (1984), "Antigenic stimulation regulates the level of expression of interleukin 2 receptor on human T cells", Proc. Nat. Acad.Sci., 81, 2172-2175
- Trowbridge, I., (1987), "Interleukin 2 receptor proteins", Nature, 327, 461
- Smith, K.A., (1988), "The biomolecular structure of the IL2 receptor". Immunology Today, 9, 36
- Taniguchi, T., et al., (1993), "The IL-2/IL-2 receptor system: a current overview", Cell, 73, 5.

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