



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Rabbit anti-CD79 $\alpha$ antibody

**Catalog No.**  
130-10035

**Isotype:**  
Rabbit Ig G

**Species:**  
Human

**Accession No:**  
P11912

## Description

CD79 (Cluster of Differentiation 79) is a transmembrane protein that forms a complex with the B-cell receptor (BCR) and generates a signal following recognition of antigen by the BCR. CD79 is composed of two distinct chains called CD79A and CD79B (formerly known as Ig-alpha and Ig-beta); these form a heterodimer on the surface of a B cell stabilized by disulfide bonding. CD79 $\alpha$  and CD79b are both members of the immunoglobulin superfamily. Human CD79 $\alpha$  is encoded by the mb-1 gene that is located on chromosome 19, and CD79b is encoded by the B29 gene that located on chromosome 17. Both CD79 chains contain an immunoreceptor tyrosine-based activation motif (ITAM) in their intracellular tails that they use to propagate a signal in a B cell, in a similar manner to CD3 generated signal transduction observed during T cell receptor activation on T cells.

## Applications

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

Options / Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:160000 (at least detecting 6.25 ng/ml)
Western Blotting			*	
Enzyme Immunoassay (EIA)			*	
Immunohistology - paraffin			*	
Immunohistology - resin			*	
Immunoprecipitation			*	
Flow Cytometry			*	
Neutralization			*	

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

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



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### **Preparation**

Immunogen was synthetic peptide derived from Human CD79 $\alpha$ . This antibody was produced from a rabbit immunized with the immunogen. The IgG fraction was purified from rabbit serum by ammonium sulphate precipitation followed by Protein A/G affinity chromatography.

### **Binding Activity**

The antibody can specifically bind to its immunogen, and did not show any cross reactivity with unrelated antigens in ELISA. The specificity for binding to recombinant protein, cellular protein and native antigen is not defined. Cross reactivity with mouse and rat CD79 $\alpha$  was not tested yet.

### **Reconstitution**

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at -20 $^{\circ}$ C to -70 $^{\circ}$ C. Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20 $^{\circ}$ C to -70 $^{\circ}$ C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can also be stored over months at 4 $^{\circ}$ C. **Please avoid freeze-thaw cycles.**

### **Storage**

Keep it at 4 $^{\circ}$ C if intended for use within a month. Store at -20 $^{\circ}$ C if over months. **Minimize freezing and thawing when use.**

### **Related products**

1. Mouse Anti-Human CD79 $\alpha$  (cat#DS-MB-03199)
2. Mouse Anti-Human CD79 $\alpha$ , FITC-labeled(cat#DS-MB-03200)

### **Reference**

Li S, Borowitz MJ. CD79a(+) T-cell lymphoblastic lymphoma with coexisting Langerhans cell histiocytosis. Arch Pathol Lab Med. 2001 Jul;125(7):958-60.

Chu PG, Arber DA. CD79: a review. Appl Immunohistochem Mol Morphol. 2001 Jun;9(2):97-106.

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