

For Research Use Only

# Recombinant Human CD79A protein (rFc Tag)



Catalog Number: Eg2030

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human CD79A protein Leu33-Arg143 (Accession# P11912-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

973

**Accession:**

P11912-1

**Predicted Molecular Mass:**

38.8 kDa

**SDS-PAGE:**

45-65 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD79a, also named as B-cell antigen receptor complex-associated protein alpha chain or MB-1 membrane glycoprotein, is a 226 amino acid protein, which contains one ITAM domain and one Ig-like C2-type (immunoglobulin-like) domain. CD79A is expressed in B cell and localizes in the cell membrane. CD79A is required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. CD79A is also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells.

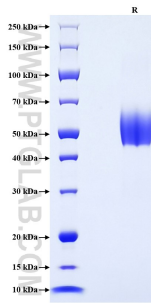
## References

1. Anton Tkachenko, et al. (2023) Int J Mol Sci. Dec 19;25(1):10.
2. P G Chu, D A Arber. (2001) Appl Immunohistochem Mol Morphol. Jun;9(2):97-106.
3. P Luisiri, et al. (1996) J Biol Chem. Mar 1;271(9):5158-63.

## Synonyms

B-cell antigen receptor complex-associated protein alpha chain, MB 1, MB 1 membrane glycoprotein, MB1, MB-1 membrane glycoprotein

## Selected Validation Data



Purity of Recombinant Human CD79A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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