

DESCRIPTION

Source Mouse myeloma cell line, NS0-derived human CD79A protein
Leu33-Arg143, with a C-terminal 6-His tag
Accession # P11912-1

N-terminal Sequence Analysis Leu33

Predicted Molecular Mass 13 kDa

SPECIFICATIONS

SDS-PAGE 38-43 kDa, reducing conditions

Activity Bioassay data are not available.

Endotoxin Level <0.10 EU per 1 µg of the protein by the LAL method.

Purity >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Formulation Lyophilized from a 0.2 µm filtered solution in PBS and EDTA. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 250 µg/mL in PBS.

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

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

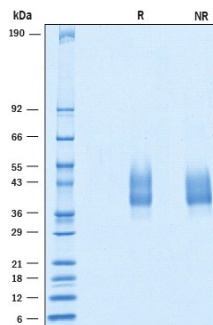
DATA

Bioactivity not tested



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R&D Systems proteins are almost always sold with a bioassay to indicate activity. However, we recognize that sometimes proteins might be novel, and their bioactivity may not be well understood. In addition, some researchers may wish to use polypeptides to make antibodies. To facilitate the advancement of new science, we now offer our Innovator Series of proteins.

SDS-PAGE



2 µg/lane of Recombinant Human CD79A was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and visualized by Coomassie® blue staining, showing bands at 38 - 43 kDa.

BACKGROUND

CD79A (also known as Mb-1, Ig alpha and B cell antigen receptor complex-associated protein alpha-chain) is a 30-40 kDa member of the Ig-Superfamily. It is expressed on B cells, and forms a covalent heterodimer with CD79B. Heterodimers of CD79A and CD79B interacts noncovalently with membrane Ig, forming the B cell antigen receptor (BCR) (1). Within this complex, membrane Ig detects antigen while CD79AB initiates signaling (1). CD79A is essential for the differentiation of pre-B cells, and the pre-BCR regulates the surface expression of IL-7R (2). Mature human CD79A is a type I transmembrane glycoprotein. It contains an extracellular region (aa 33-143) with one C2-type Ig-like domain (aa 33-116), and an ITAM-containing cytoplasmic domain (aa 177-205) (3). Within the ECD, human CD79A shares 57% amino acid sequence identity with mouse and rat CD79A.

References:

1. Tseng, J. *et al.* (1997) *Blood*, **89**:1513.
2. Kurosaki, T. (2000) *Current opinion in immunology*, **12**:276.
3. Radaev, Sergei *et al.* (2010) *Structure* **18**:934.