

## CD79B Protein, Rat (HEK293, His)

Cat. No.:	HY-P75659
Synonyms:	B-cell antigen receptor complex-associated protein beta chain; CD79b; B30; IGB
Species:	Rat
Source:	HEK293
Accession:	O70153 (V26-D158)
Gene ID:	171055
Molecular Weight:	Approximately 25-30 kDa due to the glycosylation.

### PROPERTIES

AA Sequence	V P A M T K S D Q P      P I F Q G S P C S K      I W Q H P R F A A K      K R S S M V K F H C H T D Y S G V M T W      F R Q K G N Q R P Q      E L F P E D G H I S      Q T R N G S V Y T L T L Q N I Q Y E D N      G I Y F C Q Q K C N      S T E P D V T D G C      G T E L L V L G F S T L D Q L K R R N T      L K D
Biological Activity	Immobilized Human CD79B at 2 µg/mL (100 µL/well) can bind Anti-CD79B Antibody. The ED <sub>50</sub> for this effect is 0.7885 µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>The human, murine, and rat B29 (Ig beta, CD79b) genes are highly conserved in sequence and organization and exhibit strict B cell-specific expression. In the human and rat genomes, the B29 gene is located between the skeletal muscle-specific Na-channel alpha subunit (SCN4A) gene and the pituitary-specific growth hormone (GH-N) gene. Rat B29/Ig-β gene was 3.1 kb in length with six exons and was separated by 3.3 and 9.3 kb from Na-channel and GH genes, respectively<sup>[1][2]</sup>.</p> <p>The B-cell receptor (BCR) consists of surface-bound immunoglobulin (Ig) and a heterodimeric signaling unit comprised of CD79A and CD79B. Upon cognate antigen recognition, the receptor initiates important signals for B-cell development and</p>
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function<sup>[3]</sup>.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA