

CD79B Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78415
Synonyms:	B29; CD79b molecule; CD79B; IGB; IGBAGM6; Ig-beta; Ig- β
Species:	Human
Source:	HEK293
Accession:	P40259 (A29-D159)
Gene ID:	974
Molecular Weight:	33-42 kDa

PROPERTIES

Biological Activity	Immobilized Human CD79B, His Tag at 0.5 μ g/ml (100 μ l/Well). Dose response curve for Anti-CD79B Antibody, hFc Tag with the EC ₅₀ of 5.8ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	CD79B Protein plays an essential role in conjunction with CD79A in initiating the signal transduction cascade triggered by the B-cell antigen receptor complex (BCR). This pivotal function leads to the internalization of the complex, subsequent trafficking to late endosomes, and eventual antigen presentation. CD79B enhances the phosphorylation of CD79A, potentially by recruiting kinases that phosphorylate CD79A or by engaging proteins that bind to CD79A, safeguarding it from dephosphorylation. Forming a heterodimer with the alpha chain, CD79B forms a disulfide-linked complex. It is an integral component of the B-cell antigen receptor complex, where the alpha/beta chain heterodimer associates non-covalently with an antigen-specific membrane-bound surface immunoglobulin comprising two heavy chains and two light chains. Additionally, CD79B interacts with LYN, further contributing to its regulatory role in B-cell signaling.
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Caution: Product has not been fully validated for medical applications. For research use only.

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