



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human CD79B Protein
Catalog Number: hRP-1085
Manufacturer: LD Biopharma, Inc.

Introduction

The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. Human B-cell antigen receptor complex-associated protein b chain (CD79B) gene encodes the Ig-beta protein of the B-cell antigen component. Alternatively spliced transcript variants encoding different isoforms have been described.

Full-length extracellular domain of human human CD79B cDNA (29 – 159aa, derived from BC032651) was constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal and expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: CD79B (AGM6; B29; IGB)
Accession Number: NP_000617
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Naylor, T.L., et al., *Protein kinase C inhibitor sotrastaurin selectively inhibits the growth of CD79 mutant diffuse large B-cell lymphomas*. Cancer Res. 71 (7), 2643-2653 (2011)



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Huang,X., et al., *Downregulation of the B-cell receptor signaling component CD79b in plasma cell myeloma: a possible post transcriptional regulation.* Pathol. Int. 61 (3), 122-129 (2011)

Pao,L.I., et al., *Asymmetrical phosphorylation and function of immunoreceptor tyrosine-based activation motif tyrosines in B cell antigen receptor signal transduction.* J. Immunol. 160 (7), 3305-3314 (1998)

Applications

1. May be used for in vitro human CD79B mediated B cell differentiation regulation study with this protein as either coating matrix protein or soluble factor.
2. May be used for CD79B protein-protein interaction assay development.
3. Potential biomarker protein for plasma cell myeloma.
4. As antigen for specific antibody production.

Quality Control

1. Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHGNLYFQGGEFARSEDYRNPKGSACSRIWQSPRFIARKRGFTVKM
HCYMNSASGNVSWLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQQKCN
NTSEVYQCGTELRVMGFSTLAQLKQRNTLKD