



# Recombinant Protein Technical Manual

## Recombinant Rat CD79B/B29 Protein (Fc Tag)

RPES4371

### Product Data:

**Product SKU:** RPES4371

**Size:** 20µg

**Species:** Rat

**Expression host:** HEK293 Cells

**Uniprot:** O70153

### Protein Information:

**Molecular Mass:** 42.2 kDa

**AP Molecular Mass:** 50 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 90 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg of the protein as determined by the LAL method

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** CD79B;B29/Ig-beta;Igb

## Immunogen Information:

**Sequence:** Met1-Asp158

## Background:

CD79B is a single-pass type I membrane protein. CD79B contains one Ig-like V-type domain and one ITAM domain. CD79B is required in cooperation with CD79A for initiation of the signal transduction cascade activated by the B-cell antigen receptor complex (BCR), which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. CD79B enhances phosphorylation of CD79A, possibly by recruiting kinases that phosphorylate CD79A or by recruiting proteins that bind to CD79A and protect it from dephosphorylation.