

**PerCP/Cy5.5 anti-mouse CD79b (Igβ)**

**Catalog # / Size:** 1264050 / 100 µg  
1264045 / 25 µg

**Clone:** HM79-12

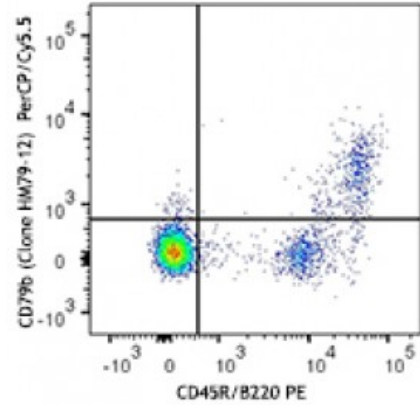
**Isotype:** Hamster IgG

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** Lot-specific



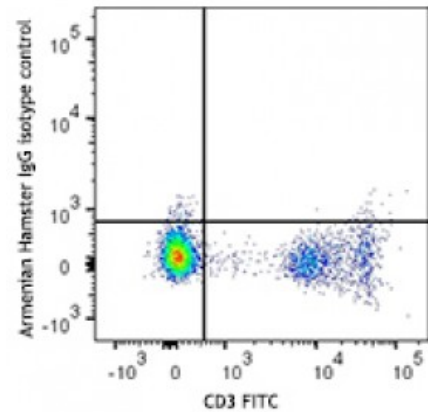
C57BL/6 bone marrow cells stained with CD45R/B220 PE and CD79b (clone HM79-12) PerCP/Cy5.5 (top) or Armenian Hamster IgG isotype control PerCP/Cy5.5 (bottom).

**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.75 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.



- Application References:**
1. Gong S, et al. 1996. *Science*. 272:411.
  2. Nagata K, et al. 1997. *Immunity*. 7:559.
  3. Papavasiliou F, et al. 1995. *Science*. 268:408.

**Description:** Mouse CD79b (Igβ chain) is a 35-40kD transmembrane protein that forms a heterodimer with CD79a (30-35 kD, Ig α chain). The CD79b and CD79a heterodimers are associated with surface IgM to form the B-cell receptor (BCR) that is necessary for signal transduction via the BCR in mature B cells. CD79b participates in the signal transduction involved in development of B cells as well. It was reported that association between CD79b/CD79a with IgM is essential in inducing both the transition from progenitor to precursor B cells and subsequent allelic exclusion. Igβ knockout mice had a complete block in B cell development at the immature CD43<sup>+</sup>B220<sup>+</sup> stage. The HM79b-12 clone reacts with an extracellular epitope of CD79b or Igβ.