SONY

Product Data Sheet

APC anti-mouse CD79b (Igβ)

Catalog # / Size: 1264035 / 25 µg
1264040 / 100 µg

Clone: HM79-12

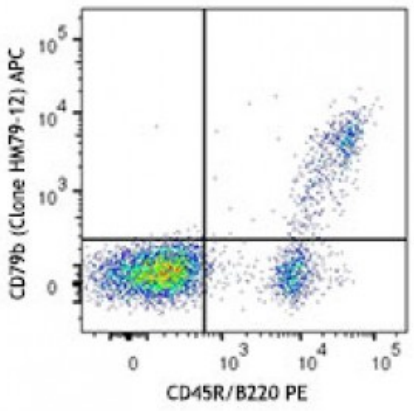
Isotype: Hamster IgG

Reactivity: Mouse

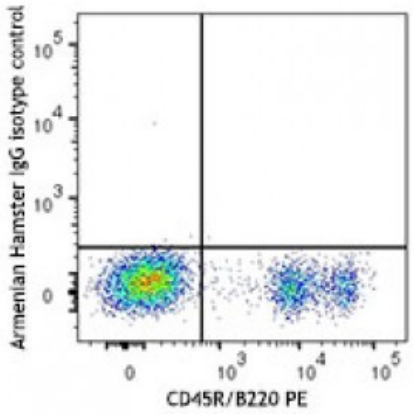
Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

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) APC (top) or Armenian Hamster IgG APC isotype control (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 ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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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. 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

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hererodimers 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 $CD43^{+}B220^{+}$ stage. The HM79b-12 clone reacts with an extracellular epitope of CD79b or Igβ.

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