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Product Data Sheet

PE/Cy7 anti-mouse CD93 (AA4.1, early B lineage)

Catalog # / Size: 136505 / 25 µg
136506 / 100 µg

Clone: AA4.1

Isotype: Rat IgG2b, κ

Immunogen: Pre-B lymphoma 70Z/3

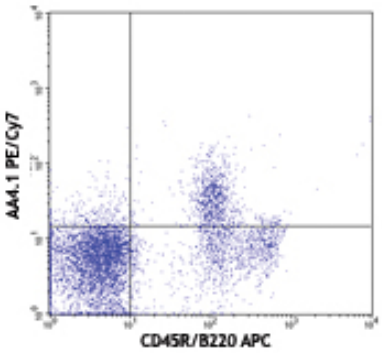
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.

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

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 bone marrow cells stained with AA4.1 PE/Cy7 and CD45R/B220 APC

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

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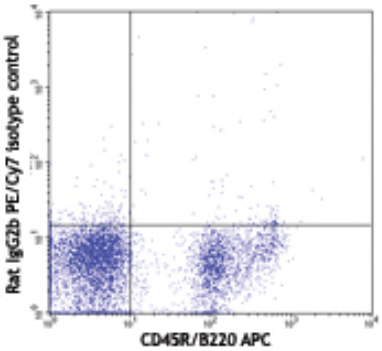

C57BL/6 bone marrow cells stained with rat IgG2b PE/Cy7 isotype control and CD45R/B220 APC

Application References:
1. McKearn JP, *et al.* 1984. *J. Immunol.* 132:332.

Description: CD93 is a 130-140kD C-type lectin-like type I transmembrane protein, also known as complement component 1, q subcomponent (C1qR1), C1qRp collectin receptor (C1qRp), or AA4 antigen. It is a receptor expressed on immature B lymphocytes, hematopoietic progenitors and stem cells in adult bone marrow, fetal liver, and embryonic yolk sac. CD93 expression levels on splenic immature/transitional B cells is much lower than in bone marrow. It is reinduced during plasma cell differentiation and plays an important role in maintaining plasma cells in bone marrow niches. Immature dendritic cells express CD93 and down-regulate this molecule upon maturation, suggesting a role in uptake of particles by DC. It is also expressed on monocytes, macrophages, and endothelial cells. Macrophages from CD93 (-/-) mice had a significant phagocytic defect in the clearance of apoptotic cells *in vivo*, indicating CD93 may contribute to the *in vivo* clearance of dying cells. Binding of CD93 to C1q remains controversial.

Antigen References:
1. Steinberger P, *et al.* 2002. *J. Leukoc. Biol.* 71:133.
2. Chevrier S, *et al.* 2009. *Proc. Nat. Acad. Sci. U.S.A.* 106:3895.
3. Norsworthy PJ, *et al.* 2004. *J. Immunol.* 172:3406.
4. Li YS, *et al.* 1996. *Immunity* 5:527.
5. Szilvassy SJ, *et al.* 1993. *Blood* 81:2310.

Related Products:

Product	Clone	Application
PE/Cy7 Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
TruStain fcX™ (anti-mouse CD16/32)	93	FC

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