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Product Data Sheet

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

Catalog # / Size: 136503 / 50 µg
136504 / 200 µg

Clone: AA4.1

Isotype: Rat IgG2b, κ

Immunogen: Pre-B lymphoma 70Z/3

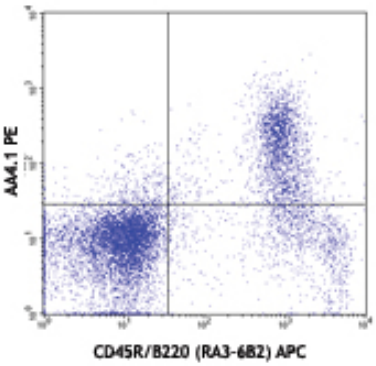
Reactivity: Mouse

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

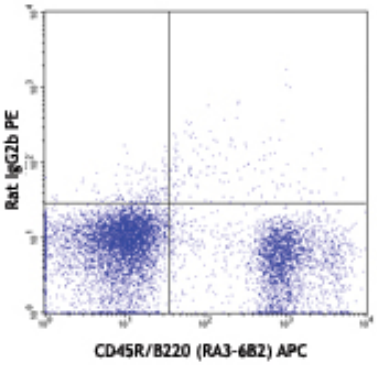
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

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 mouse bone marrow cells stained with CD45R/B220 (RA3-6B2) APC and AA4.1 PE



C57BL/6 mouse bone marrow cells stained with CD45R/B220 (RA3-6B2) APC and rat IgG2b (RTK4530) PE isotype control

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.

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, embryonic yolk sac. CD93 expression level 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 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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