

Product Data Sheet

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

Catalog # / Size: 136509 / 25 µg
136510 / 100 µg

Clone: AA4.1

Isotype: Rat IgG2b, κ

Immunogen: Pre-B lymphoma 70Z/3

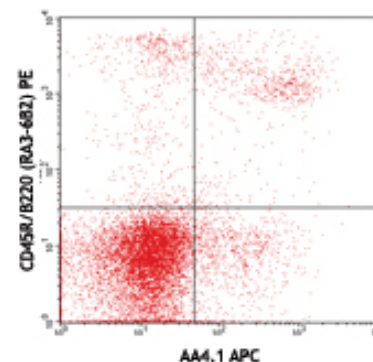
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with 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: 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.**



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

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

Description: CD93 is a 130-140 kD 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 the 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 they play a role in uptake of particles. CD93 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. The idea that CD93 binds 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. USA* 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.

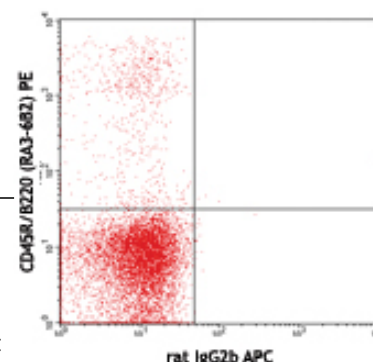
Related Products:

Product
APC Rat IgG2b, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)
FOXP3 Fix/Perm Buffer Set
TruStain fcX™ (anti-mouse CD16/32)

Clone
RTK4530

93

Application
FC, ICFC
FC, ICC, ICFC
FC, ICFC
ICFC
FC



Balb/c bone marrow cells stained with CD45R/B220 (RA3-6B2) PE and rat IgG2b, κ APC isotype control



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