

Product Data Sheet

Biotin anti-mouse CD39

Catalog # / Size: 135703 / 25 µg

135704 / 100 µg

Clone: 5F2

Isotype: Mouse IgG1, κ

Immunogen: Purified recombinant mCD39-Ig, mCD39-expressing pcDNA3.1 plasmid, and

B cells (CD39+)

Reactivity: Mouse

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

biotin under optimal conditions. The solution is free of unconjugated biotin.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



Applications: FC - Quality tested

WB, ELISA - Reported in the literature

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. Zhou Q, et al. 2009. Am J. Transplant. 9(10):2303

Description: CD39, nucleoside triphosphate diphosphohydrolase-1 (NTPDase 1), is an

ectoenzyme that degrades ATP to AMP. It is a member of ectonucleoside triphosphate dihydrolases (E-NTPDases) which are involved in regulation of extracellular nucleotide catabolism and controlling the extracellular nucleoside triphosphate pool (NTP). CD39 is the dominant member of this family in the immune system and involved in suppression of inflammation and

ramily in the immune system and involved in suppression of inflammation and control of platelet activation. CD39 is expressed on B cells, dendritic cells, and a subset of T cells including regulatory T cells and memory T cells. The coordinated expression of CD39/CD73 on Tregs and the adenosine A2A receptor on activated T effector cells generates immunosuppressive loops. In human studies, it has been reported that CD4+CD25-CD39+T cells are T

inducers.

Antigen References: 1. Borsellino G et al. 2007. Blood 110(4):1225

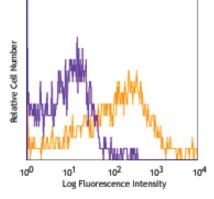
Deaglio S et al. 2007. J. Exp. Med. 204(6):1257
 Bynoe MS. et al. 2008. Trends Immunol. 29(3):99

4. Ndhlovu LC. et al. Eur. J. Immunol. 2009 Oct 28. [Epub ahead of print]

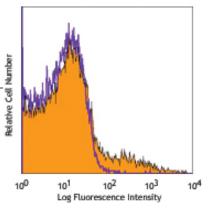
Related Products: Product Clone

Biotin Mouse IgG1, κ Isotype Ctrl MOPC-21 Cell Staining Buffer

RBC Lysis Buffer (10X)
TruStain fcX™ (anti-mouse CD16/32)
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CD4+CD25+ (top) and CD4+CD25cells (bottom) from C57BL/6 lymph node stained with biotinylated 5F2, followed by Sav-PE



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



