

Purified anti-mouse CD39

Catalog # / Size: 135701 / 25 µg
135702 / 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.

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.

Applications:

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 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
2. Deaglio S *et al.* 2007. *J. Exp. Med.* 204(6):1257
3. 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]

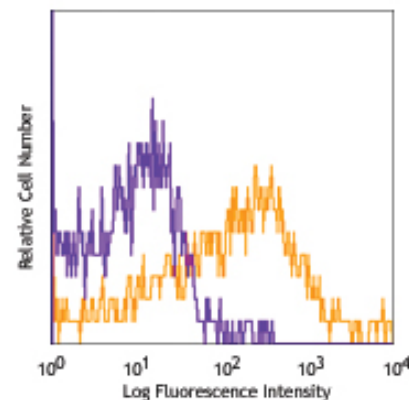
Related Products:

Product
Purified Mouse IgG1, κ Isotype Ctrl
Cell Staining Buffer
RBC Lysis Buffer (10X)

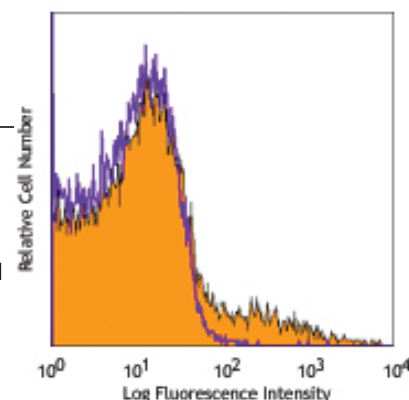
Clone
MG1-45

Application

FC, ICC, ICFC, IF, IHC, IP, WB
FC, ICC, ICFC
FC, ICFC



CD4⁺CD25⁺ (top) and CD4⁺CD25⁻ cells (bottom) from C57BL/6 lymph node stained with biotinylated 5F2, followed by Sav-PE



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.