SONY

Product Data Sheet

APC anti-mouse CD39

Catalog # / Size: 1319050 / 100 µg
1319045 / 25 µg

Clone: Duha59

Isotype: Rat IgG2a, κ

Immunogen: CD39 cDNA expression vector

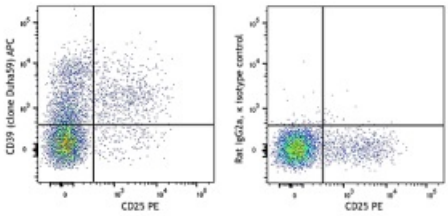
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.2

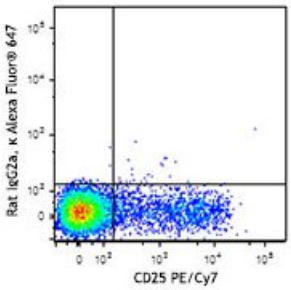


C57BL/6 Mouse splenocytes were stained with CD4 FITC, CD25 PE, and CD39 (clone Duha59) APC (left) or Rat IgG2a, κAPC isotype control (right). Data shown are from CD4+ gated population.

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 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. Borsellino G, *et al.* 2007. *Blood* 110:1225.
2. Deaglio S, *et al.* 2007. *J. Exp. Med.* 204:1257.
3. Bynoe MS, *et al.* 2008. *Trends Immunol.* 29:99.
4. Ndhlovu LC, *et al.* 2010

Description: CD39, nucleoside triphosphate diphosphohydrolase-1 (NTPDase 1), is an ectoenzyme that degrades ATP to AMP. It is a member of the 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 is 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.

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Antigen References:

1. Borsellino G, *et al.* 2007. *Blood* 110:1225.
2. Deaglio S, *et al.* 2007. *J. Exp. Med.* 204:1257.
3. Bynoe MS, *et al.* 2008. *Trends Immunol.* 29:99.
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