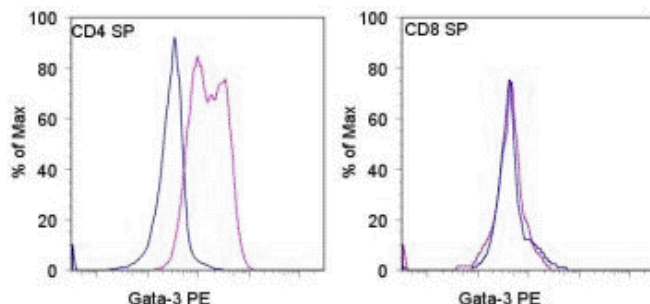


Anti-Human/Mouse Gata-3 PE

Catalog Number: 12-9966

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of CD4 (cat. 11-0041) single positive (left) and CD8 (cat. 45-0081) single positive (right) BALB/c thymocytes using the Foxp3 Staining Buffer Set (cat. 00-5523) with Rat IgG2b K Isotype Control PE (cat. 12-4031) (blue histogram) or Anti-Human/Mouse Gata-3 PE (purple histogram).

Product Information

Contents: Anti-Human/Mouse Gata-3 PE


REF **Catalog Number:** 12-9966

Clone: TWAJ


Concentration: 5 µL (0.06 µg)/test

Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 **Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The monoclonal antibody TWAJ recognizes mouse and human Gata-3, a member of the Gata family of transcription factors. Gata-3 is a T cell-specific transcription factor important for thymic development and Th2 differentiation. Expression during embryonic development is found in the central nervous system, skin, mammary glands and kidney. During development, the expression of Gata-3 is essential as homozygous knock-out of Gata-3 is embryonic lethal. The Gata-3 is also essential for T cell commitment and survival. In the thymus, expression is found mainly on the CD4 single positive cells. During Th2 differentiation, Gata-3 binds to the IL-4 promoter as well as represses the expression of T-bet, thus inhibiting Th1 differentiation.

Alternative splice variants have been reported especially in the MCF7 cell line. The TWAJ anti-mouse/human Gata-3 antibody will recognize both forms (50 and 45 kDa) of the protein.

Staining with the TWAJ anti-mouse/human Gata-3 antibody requires the use of the Foxp3 Staining Buffer Set.

Applications Reported

This TWAJ antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This TWAJ antibody has been pre-titrated and tested by intracellular staining with the Foxp3 Buffer Set (cat. 00-5523) and protocol and flow cytometric analysis of mouse thymocytes. Please see Best Protocols Section (Staining Intracellular Antigens for Flow Cytometry) for staining protocol (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

References

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Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

11-0041 Anti-Mouse CD4 FITC (GK1.5)

12-4031 Rat IgG2b K Isotype Control PE

45-0081 Anti-Mouse CD8a PerCP-Cy5.5 (53-6.7)

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