



# ThPOK Monoclonal Antibody (2POK), PE, eBioscience™

<b>Product Details</b>	
Size	100 μg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	2POK
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11149862

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	1 Publication

#### **Product Specific Information**

Description: This 2POK monoclonal antibody reacts with mouse ThPOK, which is also known as c-Krox and Zbtb7b. In hematopoietic cells, this 78 kDa transcription factor is expressed in thymocytes and T lymphocytes in the spleen and lymph nodes. In non-hematopoietic cells, ThPOK can be detected in the skin, heart, smooth muscle, and liver. Studies demonstrate that ThPOK promotes CD4+ lineage differentiation by inhibiting the expression of CD8 lineage-specific genes such as Runx3. ThPOK has also been shown to inhibit Cd4 silencing, another key facet required for differentiation to the CD4+ lineage. In addition to its role in thymocyte development, ThPOK is involved in the effector functions of invariant natural killer T (iNKT) cells and gamma delta T cells.

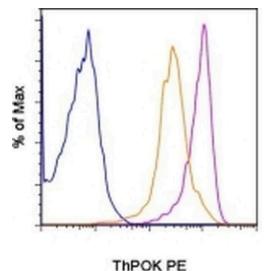
Applications Reported: This 2POK antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This 2POK antibody has been tested by intracellular staining and flow cytometric analysis of mouse thymocytes using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. This can be used at less than or equal to 0.25  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

# Product Images For ThPOK Monoclonal Antibody (2POK), PE, eBioscience™



#### ThPOK Antibody (12-5928-82) in Flow

C57Bl/6 thymocytes were stained with Anti-Mouse CD4 APC (Product # 17-0041-82) and Anti-Mouse CD8a FITC (Product # 11-0081-82), followed by intracellular staining with 0.125  $\mu g$  of Rat IgG2a K Isotype Control PE (Product # 12-4321-80) (blue histogram) or 0.125  $\mu g$  of Anti-Mouse ThPOK PE using the Foxp3 Staining Buffer Set and protocol (Product # 00-5523-00). The histogram demonstrates ThPOK staining of CD4 SP (purple histogram) and CD8 SP (orange histogram) thymocytes.

## **□ 1 Reference**

## Flow Cytometry (1)

PLoS biology

**Year** 2014

NKT cell-TCR expression activates conventional T cells in vivo, but is largely dispensable for mature NKT cell biology.

Authors: Vahl JC, Heger K, Knies N, Hein MY, Boon L, Yagita H, Polic B, Schmidt-Supprian M

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